

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME :	<u>CHEMTECH CONSULTING GROUP, INC.</u>		
CITY / STATE :	<u>MOUNTAININSIDE, NJ</u>		
CASE NO :	<u>41926</u>	SDG NO :	<u>MH3BA1</u>
SDG NOs TO FOLLOW			
NRAS NO :			
CONTRACT NO :	<u>EPW09038</u>		
SOW NO :	<u>ISM01.3</u>		

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

	PAGE NOS:		CHECK	
	FROM	TO	LAB	REGION
1. Inventory Sheet (DC-2)	<u>1</u>	<u>2</u>	<input checked="" type="checkbox"/>	
2. SDG Narrative	<u>3</u>	<u>5</u>	<input checked="" type="checkbox"/>	
3. Sample Log-In Sheet (DC-1)	<u>6</u>	<u>6</u>	<input checked="" type="checkbox"/>	
4. Traffic Report/Chain of Custody Record(s)	<u>7</u>	<u>9</u>	<input checked="" type="checkbox"/>	
5. Cover Page	<u>10</u>	<u>10</u>	<input checked="" type="checkbox"/>	
<b>Inorganic Analysis</b>				
6. Data Sheet (Form IA-IN)	<u>11</u>	<u>25</u>	<input checked="" type="checkbox"/>	
7. Initial & Continuing Calibration Verification (Form IIA-IN)	<u>26</u>	<u>28</u>	<input checked="" type="checkbox"/>	
8. Blanks (Form III-IN)	<u>29</u>	<u>30</u>	<input checked="" type="checkbox"/>	
9. ICP-AES Interference Check Sample (Form IVA-IN)				
10. ICP-MS Interference Check Sample (Form IVB-IN)	<u>31</u>	<u>32</u>	<input checked="" type="checkbox"/>	
11. Matrix Spike Sample Recovery (Form VA-IN)	<u>33</u>	<u>33</u>	<input checked="" type="checkbox"/>	
12. Post-Digestion Spike Sample Recovery (Form VB-IN)	<u>34</u>	<u>34</u>	<input checked="" type="checkbox"/>	
13. Duplicates (Form VI-IN)	<u>35</u>	<u>35</u>	<input checked="" type="checkbox"/>	
14. Laboratory Control Sample (Form VII-IN)	<u>36</u>	<u>36</u>	<input checked="" type="checkbox"/>	
15. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	<u>37</u>	<u>37</u>	<input checked="" type="checkbox"/>	
16. Method Detection Limits (Annually) (Form IX-IN)	<u>38</u>	<u>38</u>	<input checked="" type="checkbox"/>	
17. ICP-AES Interelement Correction Factors (Annually) (Form XA-IN)				
18. ICP-AES Interelement Correction Factor (Annually) (Form XB-IN)				
19. Internal Standard Association (Form XI-IN)	<u>39</u>	<u>39</u>	<input checked="" type="checkbox"/>	
20. Preparation Log (Form XII-IN)	<u>40</u>	<u>40</u>	<input checked="" type="checkbox"/>	
21. Analysis Run Log (Form XIII-IN)	<u>41</u>	<u>42</u>	<input checked="" type="checkbox"/>	
22. ICP-MS Tune (Form XIV-IN)	<u>43</u>	<u>43</u>	<input checked="" type="checkbox"/>	
23. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	<u>44</u>	<u>45</u>	<input checked="" type="checkbox"/>	
24. Initial Calibration (Form XVI-IN)	<u>46</u>	<u>47</u>	<input checked="" type="checkbox"/>	
25. ICP-AES Raw Data				
26. ICP-MS Raw Data	<u>48</u>	<u>253</u>	<input checked="" type="checkbox"/>	
27. Mercury Raw Data				

28. Cyanide Raw Data				
29. Preparation Logs Raw Data	254	256	✓	
30. Percent Solids Determination Log				
31. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments) <u>1</u>	257	257	✓	
Sample Tags ( <i>In a Plastic Bag w/ Page #</i> )				
Sample Log-In Sheet (Lab)	258	259	✓	
32. Misc. Shipping/Receiving Records (list all individual records)				
<u>Telephone log</u>	260	264	✓	
<u>PE Instruction Page</u>				
<u>Modified Analysis Page</u>				
33. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
<u>Internal Lab COC</u>	265	265	✓	
<u>Miscellaneous</u>				
34. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records				
Analysis Records				
Description				
35. Other Records (describe or list) Communications Log				
36. Comments :				

Completed By :

(CLP Lab) Mildred V. Reyes Mildred V. Reyes, Document Control Officer 11/23/11  
 (Signature) (Print Name & Title) (Date)

Audited By :

(USEPA) \_\_\_\_\_ (Print Name & Title) \_\_\_\_\_ (Date)  
 (Signature)

**CHEMTECH**  
**284 Sheffield Street**  
**Mountainside, NJ 07092**

## **SDG NARRATIVE**

USEPA  
SDG # MH3BA1  
**CASE # 41926**  
CONTRACT # EPW09038  
LAB NAME: CHEMTECH CONSULTING GROUP  
LAB CODE: CHEM  
CHEMTECH PROJECT #C4464

### **A. Number of Samples and Date of Receipt**

15 Water Samples were delivered to the laboratory intact on 11/03/11.

### **B. Parameters**

Test requested for Metals CLP MS = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

### **C. Cooler Temp**

Indicator Bottle: Presence/Absence

Cooler: 4°C

### **D. Detail Documentation (related to Sample Handling**

**Shipping, Analytical Problem, Temp of Cooler etc):**

Issue 1: The TR/COC lists the dissolved metals sample (ID MH3BB6) station location SSSW89 collected 10/29/2011 at 9:00; however, the laboratory did not receive this sample.

Issue 2: The laboratory received samples without CLP formatted IDs.

Issue 3: The TM/DM samples have the same ID on the TR/COC.

Issue 4: The TR/COC does not list a TAT. Per Scheduling this Case requires a 21 day TAT.

Issue 5: The TR/COC lists the analyses as metals for soil/TM samples and as dissolved metals for DM samples. Per Scheduling, soil samples require ICP-AES 11+ Metals (full list) analysis and TM/DM samples require ICP-MS 11+ Metals (full list) analysis.

Issue 6: No sample was designated for laboratory QC or they indicated that laboratory QC is not required on the TR/COC. Per scheduling, laboratory QC is required.

Issue 7: Sample tags were not received with samples at the laboratory. Sample tag numbers may or may

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not be listed on the TR/COC.

**E. Corrective Action taken for above:**

Resolution 1: Per Region 8, no dissolved container was send for sample MH3BB6; analysis of this sample is canceled for the DM portion. The lab shall note the issue in the SDG Narrative and proceed with analysis.

Resolution 2: In accordance with previous direction from Region 8, the SMO coordinator will assign new sample IDs and provide the laboratory and the Region with a copy of the cross-referenced sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 3: In accordance with previous direction from Region 8, the Total Metals sample will keep the CLP sample ID listed on the TR/COC. The SMO coordinator will assign a new CLP sample ID for the Dissolved Metals/Filtered Metals sample and notify the Region and the laboratory of the new sample ID. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 4: In accordance with previous direction from Region 8, the laboratory will proceed with the turnaround time indicated on the Scheduling Notification Form, note the issue in the SDG Narrative, and proceed with the analysis of the samples. The resolution will be applied to all TR/COCs received for this Case that list an incorrect turnaround time.

Resolution 5: In accordance with previous direction from Region 8, the laboratory will note the issue in the SDG Narrative, perform the analyses as indicated on the Scheduling Notification Form, and proceed with the analysis of the samples. The resolution will be applied to all TR/COCs received for this Case that list an incorrect analysis.

Resolution 6: In accordance with previous direction from Region 8, the laboratory will select a sample for laboratory QC as long as the sample is not a PE, blank, or rinsate sample and laboratory QC can be performed at full volume. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 7: In accordance with previous direction from Region 8, the laboratory will note the issue in the SDG Narrative, and proceed with the analysis of the sample. The Resolution will be applied to all samples received for this Case.

**F. Analytical Techniques:**

All analyses were based on CLP Methodology by method ISM01.3

**G. Calculation:*****Calculation example for ICP-MS Water Sample:***

Results reported in Ug/L = Results in ppb X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP Water- Prep

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Fraction of Sample Amount Taken in ICP-MS Water- Prep = 100/100 or 50/50 =1

(If 100 ml Initial Volume taken and Final Volume was made to 100 ml or 50 ml Initial Volume and Final Volume made to 50 ml in ICP-MS Water Digestion procedure)

**H. QA/ QC**

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements except for Zinc. Serial Dilution did meet requirements.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature Mildred V. Reyes

Name: Mildred V. Reyes

Date 11/23/11

Title: Document Control Officer

## SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP

Page\_1 of 1

Received By (Print Name)	Palair Shah		Log-in Date	11/3/2011																																																																																																																																												
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Airbill <input checked="" type="checkbox"/> Airbill/Sticker <input type="checkbox"/> Present <input type="checkbox"/> Absent*</td> <td>MH3BA4</td> <td></td> <td></td> <td>C4464-04</td> </tr> <tr> <td>5. Airbill No. <input checked="" type="checkbox"/> 873951760364</td> <td>MH3BA5</td> <td></td> <td></td> <td>C4464-05</td> </tr> <tr> <td>6. Sample Tags Sample Tag # <input checked="" type="checkbox"/> Present/Absent <input checked="" type="checkbox"/> Listed/Not Listed On TR/Chain-of-Custody</td> <td>MH3BA6</td> <td></td> <td></td> <td>C4464-06</td> </tr> <tr> <td>7. Sample Condition <input checked="" type="checkbox"/> Intact/Broken*/Leaking</td> <td>MH3BA6D</td> <td></td> <td></td> <td>C4464-07</td> </tr> <tr> <td>8. Cooler Temperature Indicator Bottle <input checked="" type="checkbox"/> Present/Absent*</td> <td>MH3BA6S</td> <td></td> <td></td> <td>C4464-08</td> </tr> <tr> <td>9. 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### Sample Delivery Group (SDG) Cover Sheet

SDG Number	<u>MH3BA1</u>	Case Number	<u>41926</u>	Contract Number	<u>EPW09038</u>
Lab Code	<u>CHEM</u>	SDG Turnaround	<u>21 days</u>	Delivery CLIN(s)	<u>-</u>

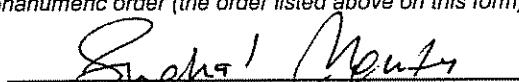
First Sample Received in SDG	<u>MH3BA1</u>	Last Sample Received in SDG	<u>MH3BB5</u>
First Sample Receipt Date	<u>11/3/2011 9:15:00 AM</u>	Last Sample Receipt Date	<u>11/3/2011 9:15:00 AM</u>

USEPA Sample Numbers in SDG (Listed in Numerical Order)

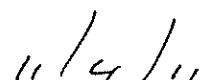
CLP Sample ID	Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
MH3BA1	Field Sample	0010C	<u>None</u>	<u>None</u>
MH3BA2	Field Sample	0010C		
MH3BA3	Field Sample	0010C		
MH3BA4	Field Sample	0010C		
MH3BA5	Field Sample	0010C		
MH3BA6	Field Sample	0010C		
MH3BA6D	Field Sample	0010C		
MH3BA6S	Field Sample	0010C		
MH3BA7	Field Sample	0010C		
MH3BA8	Field Sample	0010C		
MH3BA9	Field Sample	0010C		
MH3BB0	Field Sample	0010C		
MH3BB1	Field Sample	0010C		
MH3BB2	Field Sample	0010C		
MH3BB3	Field Sample	0010C		
MH3BB4	Field Sample	0010C		
MH3BB5	Field Sample	0010C		

**Note:** There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Signature



Date




2h.R  
11/23/11

USEPA

Date Shipped: 11/1/2011

Carrier Name: FedEx

Airbill No:

## CHAIN OF CUSTODY RECORD

Site #: 41926

Contact Name: Jeff Miller

Contact Phone: 720-810-0792

No: 8-110111-144130-0008

Cooler #:

Lab: ChemTech Consulting Group

Lab Phone: 908-789-8900

Lab #	Location,	Analyses	Matrix	Collected	Sample Time	Preservative	MS/MSD
SSGW10		Metals	Ground Water	10/28/2011	14:10	HNO3 pH<2	Y
SSGW11		Metals	Ground Water	10/28/2011	17:20	HNO3 pH<2	
SSGW12		Metals	Ground Water	10/29/2011	10:20	HNO3 pH<2	
SSGW18		Metals	Ground Water	10/27/2011	10:23	HNO3 pH<2	
SSGW23		Metals	Ground Water	10/29/2011	12:45	HNO3 pH<2	Y
SSGW24		Metals	Ground Water	10/29/2011	13:50	HNO3 pH<2	
SSGW25		Metals	Ground Water	10/29/2011	13:20	HNO3 pH<2	
SSGW26		Metals	Ground Water	10/29/2011	11:50	HNO3 pH<2	
SSGW89		Metals	Ground Water	10/29/2011	14:10	HNO3 pH<2	
SSGW99		Metals	Ground Water	10/29/2011	11:55	HNO3 pH<2	
SSGW03		Dissolved Metals	Filtered Water	10/28/2011	9:10	HNO3 pH<2	
SSGW04		Dissolved Metals	Filtered Water	10/27/2011	14:05	HNO3 pH<2	
SSGW05		Dissolved Metals	Filtered Water	10/27/2011	17:25	HNO3 pH<2	
SSGW07		Dissolved Metals	Filtered Water	10/28/2011	11:37	HNO3 pH<2	
SSGW08		Dissolved Metals	Filtered Water	10/28/2011	18:50	HNO3 pH<2	
SSGW10		Dissolved Metals	Filtered Water	10/28/2011	14:10	HNO3 pH<2	Y
SSGW11		Dissolved Metals	Filtered Water	10/28/2011	17:20	HNO3 pH<2	
SSGW12		Dissolved Metals	Filtered Water	10/29/2011	10:20	HNO3 pH<2	
SSGW18		Dissolved Metals	Filtered Water	10/27/2011	10:23	HNO3 pH<2	
SSGW23		Dissolved Metals	Filtered Water	10/29/2011	12:45	HNO3 pH<2	Y

Special Instructions: Results to jeff.miller@urs.com, amy.k.gray@urs.com	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #
	N/A

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	<i>JM</i>	NOV 2 2011	FEDEX				<i>FedEx</i>	11/3/11	<i>PS</i>	11/3/11	9:16

(Except sampling listed Diss. metals - all samples are in SDH # MH3B40)

Temp: 4°C

(See excel/e-mail for client sample IDs)

USEPA

DateShipped: 11/1/2011

**CarrierName:** FedEx

Airbill No:

## **CHAIN OF CUSTODY RECORD**

Site #: 41926

Contact Name: Jeff Miller

Contact Phone: 720-810-0792

No: 8-110111-144130-0008

**Cooler #:**

Lab: ChemTech Consulting Group

Lab Phone: 908-789-8900

Special Instructions: Results to jeff.miller@urs.com, amy.k.gray@urs.com

**SAMPLES TRANSFERRED FROM**

**CHAIN OF CUSTODY #**

except:  $\text{SSW} \& q(\text{MH}_3\text{B}_4\text{O})$  all symbols are in staff  $\text{MH}_3\text{B}_4\text{O}$

Temp: 4°C

See Excel/Email for Client sample IDs.)

# Metals

## COVER PAGE

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No: MH3BA1  
SOW No.: ISM01.3

EPA Sample No.	Lab Sample ID
<u>MH3BA1</u>	<u>C4464-01</u>
<u>MH3BA2</u>	<u>C4464-02</u>
<u>MH3BA3</u>	<u>C4464-03</u>
<u>MH3BA4</u>	<u>C4464-04</u>
<u>MH3BA5</u>	<u>C4464-05</u>
<u>MH3BA6</u>	<u>C4464-06</u>
<u>MH3BA6D</u>	<u>C4464-07</u>
<u>MH3BA6S</u>	<u>C4464-08</u>
<u>MH3BA7</u>	<u>C4464-09</u>
<u>MH3BA8</u>	<u>C4464-10</u>
<u>MH3BA9</u>	<u>C4464-11</u>
<u>MH3BB0</u>	<u>C4464-12</u>
<u>MH3BB1</u>	<u>C4464-13</u>
<u>MH3BB2</u>	<u>C4464-14</u>
<u>MH3BB3</u>	<u>C4464-15</u>
<u>MH3BB4</u>	<u>C4464-16</u>
<u>MH3BB5</u>	<u>C4464-17</u>

ICP-AES      ICP-MS

Were ICP-AES and ICP-MS interelement corrections applied? (Yes/No) NO YES

Were ICP-AES and ICP-MS background corrections applied? (Yes/No) NO YES

If yes, were raw data generated before application of background corrections? (Yes/No) NO N/A

The laboratory did not receive any instructions with this SDG to modify the SOW standard laboratory sample preparation procedures (e.g., subsampling). To aid in the determination of data usability with respect to project decisions, any modifications performed are described below.

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Data Package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mildred Reyes

Name: MILDRED REYES

Date: 11/23/11

Title: DOCUMENT CONTROL OFFICER

10

**Metals**  
**1A-IN**  
**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BA1

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
Matrix: WATER Lab Sample ID: C4464-01  
% Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	67.8			MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	26.2			MS
7440-39-3	Barium	1820			MS
7440-41-7	Beryllium	0.17	J		MS
7440-43-9	Cadmium	0.67	J		MS
7440-70-2	Calcium	57000			MS
7440-47-3	Chromium	7.3			MS
7440-48-4	Cobalt	0.95	J		MS
7440-50-8	Copper	2.3			MS
7439-89-6	Iron	1890			MS
7439-92-1	Lead	0.99	J		MS
7439-95-4	Magnesium	1190000		D	MS
7439-96-5	Manganese	1100			MS
7440-02-0	Nickel	13.8			MS
7440-09-7	Potassium	68500		D	MS
7782-49-2	Selenium	1.2	J		MS
7440-22-4	Silver	0.13	J		MS
7440-23-5	Sodium	1090000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	6.8			MS
7440-66-6	Zinc	2.9		*	MS

Color Before: BROWN Clarity Before: CLEAR Texture: \_\_\_\_\_  
Color After: YELLOW Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:  
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## Metals

1A-IN

## INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH3BA2

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1

Matrix: WATER Lab Sample ID: C4464-02

% Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	53.7			MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	16.1			MS
7440-39-3	Barium	1190			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.13	J		MS
7440-70-2	Calcium	185000		D	MS
7440-47-3	Chromium	5.8			MS
7440-48-4	Cobalt	1.6			MS
7440-50-8	Copper	2.1			MS
7439-89-6	Iron	1110			MS
7439-92-1	Lead	0.71	J		MS
7439-95-4	Magnesium	154000		D	MS
7439-96-5	Manganese	4530		D	MS
7440-02-0	Nickel	10.2			MS
7440-09-7	Potassium	21000			MS
7782-49-2	Selenium	0.94	J		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	791000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	7.4			MS
7440-66-6	Zinc	3.0		*	MS

Color Before: BROWN Clarity Before: CLEAR Texture: \_\_\_\_\_Color After: YELLOW Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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**Metals**  
**1A-IN**  
**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BA3

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
Matrix: WATER Lab Sample ID: C4464-03  
% Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	176			MS
7440-36-0	Antimony	0.35	J		MS
7440-38-2	Arsenic	31.0			MS
7440-39-3	Barium	481			MS
7440-41-7	Beryllium	0.38	J		MS
7440-43-9	Cadmium	0.62	J		MS
7440-70-2	Calcium	21400			MS
7440-47-3	Chromium	37.7			MS
7440-48-4	Cobalt	4.0			MS
7440-50-8	Copper	4.1			MS
7439-89-6	Iron	7250			MS
7439-92-1	Lead	1.4			MS
7439-95-4	Magnesium	51200			MS
7439-96-5	Manganese	726			MS
7440-02-0	Nickel	12.2			MS
7440-09-7	Potassium	47000			MS
7782-49-2	Selenium	1.8	J		MS
7440-22-4	Silver	0.14	J		MS
7440-23-5	Sodium	2020000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	55.2			MS
7440-66-6	Zinc	4.3		*	MS

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_  
Color After: YELLOW Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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**Metals**  
**1A-IN**  
**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BA4

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
Matrix: WATER Lab Sample ID: C4464-04  
% Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	31.2			MS
7440-36-0	Antimony	0.37	J		MS
7440-38-2	Arsenic	32.4			MS
7440-39-3	Barium	3190			MS
7440-41-7	Beryllium	0.16	J		MS
7440-43-9	Cadmium	0.25	J		MS
7440-70-2	Calcium	292000		D	MS
7440-47-3	Chromium	7.3			MS
7440-48-4	Cobalt	2.1			MS
7440-50-8	Copper	2.3			MS
7439-89-6	Iron	18100			MS
7439-92-1	Lead	0.56	J		MS
7439-95-4	Magnesium	151000		D	MS
7439-96-5	Manganese	9240		D	MS
7440-02-0	Nickel	8.9			MS
7440-09-7	Potassium	23100			MS
7782-49-2	Selenium	1.4	J		MS
7440-22-4	Silver	0.11	J		MS
7440-23-5	Sodium	778000		D	MS
7440-28-0	Thallium	0.091	J		MS
7440-62-2	Vanadium	9.8			MS
7440-66-6	Zinc	3.6		*	MS

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_  
Color After: YELLOW Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
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## Metals

1A-IN

## INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH3BA5

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: SDG No.: MH3BA1

Matrix: WATER Lab Sample ID: C4464-05

% Solids: Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	711			MS
7440-36-0	Antimony	4.3			MS
7440-38-2	Arsenic	95.9			MS
7440-39-3	Barium	121			MS
7440-41-7	Beryllium	0.63	J		MS
7440-43-9	Cadmium	0.44	J		MS
7440-70-2	Calcium	77400			MS
7440-47-3	Chromium	32.2			MS
7440-48-4	Cobalt	2.8			MS
7440-50-8	Copper	4.0			MS
7439-89-6	Iron	6190			MS
7439-92-1	Lead	1.7			MS
7439-95-4	Magnesium	28900			MS
7439-96-5	Manganese	4790		D	MS
7440-02-0	Nickel	19.9			MS
7440-09-7	Potassium	19700			MS
7782-49-2	Selenium	1.7	J		MS
7440-22-4	Silver	0.14	J		MS
7440-23-5	Sodium	766000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	141			MS
7440-66-6	Zinc	10.4		*	MS

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

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## Metals

1A-IN

## INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH3BA6

Lab Name: Chemtech Consulting Group

Contract: EPW09038

Lab Code: CHEM

Case No.: 41926

Mod. Ref. No.:

SDG No.: MH3BA1

Matrix: WATER

Lab Sample ID: C4464-06

% Solids:

Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	216			MS
7440-36-0	Antimony	1.4	J		MS
7440-38-2	Arsenic	121			MS
7440-39-3	Barium	600			MS
7440-41-7	Beryllium	0.19	J		MS
7440-43-9	Cadmium	0.33	J		MS
7440-70-2	Calcium	44200			MS
7440-47-3	Chromium	11.6			MS
7440-48-4	Cobalt	0.98	J		MS
7440-50-8	Copper	2.3			MS
7439-89-6	Iron	2910			MS
7439-92-1	Lead	1.2			MS
7439-95-4	Magnesium	19400			MS
7439-96-5	Manganese	1320			MS
7440-02-0	Nickel	14.0			MS
7440-09-7	Potassium	7200			MS
7782-49-2	Selenium	1.1	J		MS
7440-22-4	Silver	0.11	J		MS
7440-23-5	Sodium	693000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	65.8			MS
7440-66-6	Zinc	10.3		*	MS

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After: YELLOW Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

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**Metals**  
**1A-IN**  
**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BA7

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
Matrix: WATER Lab Sample ID: C4464-09  
% Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	210			MS
7440-36-0	Antimony	0.75	J		MS
7440-38-2	Arsenic	90.4			MS
7440-39-3	Barium	189			MS
7440-41-7	Beryllium	0.14	J		MS
7440-43-9	Cadmium	0.24	J		MS
7440-70-2	Calcium	47600			MS
7440-47-3	Chromium	10.5			MS
7440-48-4	Cobalt	2.2			MS
7440-50-8	Copper	3.7			MS
7439-89-6	Iron	6630			MS
7439-92-1	Lead	4.6			MS
7439-95-4	Magnesium	20300			MS
7439-96-5	Manganese	4260		D	MS
7440-02-0	Nickel	11.2			MS
7440-09-7	Potassium	10500			MS
7782-49-2	Selenium	0.72	J		MS
7440-22-4	Silver	0.10	J		MS
7440-23-5	Sodium	549000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	35.7			MS
7440-66-6	Zinc	5.3		*	MS

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_  
Color After: YELLOW Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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**Metals**  
**1A-IN**  
**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BA8

Lab Name:	Chemtech Consulting Group	Contract:	EPW09038
Lab Code:	CHEM	Case No.:	41926
Matrix:	WATER	Mod. Ref. No.:	
% Solids:		Lab Sample ID:	C4464-10
		Date Received:	11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	160			MS
7440-36-0	Antimony	0.52	J		MS
7440-38-2	Arsenic	63.3			MS
7440-39-3	Barium	135			MS
7440-41-7	Beryllium	0.088	J		MS
7440-43-9	Cadmium	0.15	J		MS
7440-70-2	Calcium	47400			MS
7440-47-3	Chromium	4.5			MS
7440-48-4	Cobalt	1.3			MS
7440-50-8	Copper	11.7			MS
7439-89-6	Iron	6510			MS
7439-92-1	Lead	8.6			MS
7439-95-4	Magnesium	14600			MS
7439-96-5	Manganese	3630		D	MS
7440-02-0	Nickel	5.4			MS
7440-09-7	Potassium	16600			MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	0.097	J		MS
7440-23-5	Sodium	440000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	32.4			MS
7440-66-6	Zinc	2.7		*	MS

Color Before:	<u>BROWN</u>	Clarity Before:	<u>CLOUDY</u>	Texture:	
Color After:	<u>YELLOW</u>	Clarity After:	<u>CLEAR</u>	Artifacts:	

Comments:

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**Metals**  
**1A-IN**  
**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BA9

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
Matrix: WATER Lab Sample ID: C4464-11  
% Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	260			MS
7440-36-0	Antimony	1.1	J		MS
7440-38-2	Arsenic	42.2			MS
7440-39-3	Barium	143			MS
7440-41-7	Beryllium	0.29	J		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	56200			MS
7440-47-3	Chromium	3.4			MS
7440-48-4	Cobalt	0.62	J		MS
7440-50-8	Copper	5.6			MS
7439-89-6	Iron	4070			MS
7439-92-1	Lead	1.7			MS
7439-95-4	Magnesium	17400			MS
7439-96-5	Manganese	3340		D	MS
7440-02-0	Nickel	5.6			MS
7440-09-7	Potassium	16000			MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	494000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	31.4			MS
7440-66-6	Zinc	3.9		*	MS

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_  
Color After: YELLOW Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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**Metals**  
**1A-IN**  
**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BB0

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
Matrix: WATER Lab Sample ID: C4464-12  
% Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20.0	U		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.0			MS
7440-39-3	Barium	144			MS
7440-41-7	Beryllium	0.062	J		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	68600			MS
7440-47-3	Chromium	0.69	J		MS
7440-48-4	Cobalt	0.14	J		MS
7440-50-8	Copper	1.4	J		MS
7439-89-6	Iron	610			MS
7439-92-1	Lead	0.72	J		MS
7439-95-4	Magnesium	23800			MS
7439-96-5	Manganese	7.9			MS
7440-02-0	Nickel	1.3			MS
7440-09-7	Potassium	2060			MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	39100			MS
7440-28-0	Thallium	0.10	J		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	7.0		*	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_  
Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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**Metals**

1A-IN

**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BB1

Lab Name: Chemtech Consulting Group Contract: EPW09038  
 Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
 Matrix: WATER Lab Sample ID: C4464-13  
 % Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20.0	U		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.68	J		MS
7440-39-3	Barium	345			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	65900			MS
7440-47-3	Chromium	0.70	J		MS
7440-48-4	Cobalt	0.55	J		MS
7440-50-8	Copper	1.4	J		MS
7439-89-6	Iron	346			MS
7439-92-1	Lead	0.67	J		MS
7439-95-4	Magnesium	22500			MS
7439-96-5	Manganese	3.5			MS
7440-02-0	Nickel	1.2			MS
7440-09-7	Potassium	1930			MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	24600			MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	12.7		*	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_  
 Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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**Metals**  
**1A-IN**  
**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BB2

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
Matrix: WATER Lab Sample ID: C4464-14  
% Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20.0	U		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	0.91	J		MS
7440-39-3	Barium	193			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	68400			MS
7440-47-3	Chromium	0.51	J		MS
7440-48-4	Cobalt	0.30	J		MS
7440-50-8	Copper	1.5	J		MS
7439-89-6	Iron	958			MS
7439-92-1	Lead	0.58	J		MS
7439-95-4	Magnesium	23800			MS
7439-96-5	Manganese	12.0			MS
7440-02-0	Nickel	1.1			MS
7440-09-7	Potassium	2020			MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	35200			MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	14.6		*	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_  
Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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**Metals**  
**1A-IN**  
**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BB3

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
Matrix: WATER Lab Sample ID: C4464-15  
% Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3.0	J		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.9			MS
7440-39-3	Barium	520			MS
7440-41-7	Beryllium	0.11	J		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	61300			MS
7440-47-3	Chromium	0.81	J		MS
7440-48-4	Cobalt	0.44	J		MS
7440-50-8	Copper	2.2			MS
7439-89-6	Iron	333			MS
7439-92-1	Lead	0.83	J		MS
7439-95-4	Magnesium	20800			MS
7439-96-5	Manganese	3.4			MS
7440-02-0	Nickel	1.2			MS
7440-09-7	Potassium	2000			MS
7782-49-2	Selenium	0.69	J		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	17500			MS
7440-28-0	Thallium	0.11	J		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	39.8		*	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_  
Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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## Metals

1A-IN

## INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH3BB4

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: SDG No.: MH3BA1

Matrix: WATER Lab Sample ID: C4464-16

% Solids: Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	264			MS
7440-36-0	Antimony	2.1			MS
7440-38-2	Arsenic	109			MS
7440-39-3	Barium	495			MS
7440-41-7	Beryllium	0.30	J		MS
7440-43-9	Cadmium	0.57	J		MS
7440-70-2	Calcium	39600			MS
7440-47-3	Chromium	13.1			MS
7440-48-4	Cobalt	1.2			MS
7440-50-8	Copper	2.9			MS
7439-89-6	Iron	2350			MS
7439-92-1	Lead	2.2			MS
7439-95-4	Magnesium	17200			MS
7439-96-5	Manganese	1180			MS
7440-02-0	Nickel	13.7			MS
7440-09-7	Potassium	7130			MS
7782-49-2	Selenium	1.4	J		MS
7440-22-4	Silver	0.19	J		MS
7440-23-5	Sodium	675000		D	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	67.4			MS
7440-66-6	Zinc	6.7		*	MS

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

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**Metals**  
**1A-IN**  
**INORGANIC ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MH3BB5

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
Matrix: WATER Lab Sample ID: C4464-17  
% Solids: \_\_\_\_\_ Date Received: 11/03/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20.0	U		MS
7440-36-0	Antimony	2.0	U		MS
7440-38-2	Arsenic	1.3			MS
7440-39-3	Barium	500			MS
7440-41-7	Beryllium	0.14	J		MS
7440-43-9	Cadmium	1.0	U		MS
7440-70-2	Calcium	59400			MS
7440-47-3	Chromium	0.80	J		MS
7440-48-4	Cobalt	1.0			MS
7440-50-8	Copper	1.8	J		MS
7439-89-6	Iron	293			MS
7439-92-1	Lead	1.2			MS
7439-95-4	Magnesium	20100			MS
7439-96-5	Manganese	3.9			MS
7440-02-0	Nickel	1.2			MS
7440-09-7	Potassium	1820			MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-23-5	Sodium	17600			MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	36.3		*	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_  
Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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**Metals**

**2A-IN**

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Lab Name: Chemtech Consulting Group Contract: EPW09038  
 Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
 Initial Calibration Verification Source: EPA-0307  
 Continuing Calibration Verification Source: MP9292  
 Concentration Units: ug/L

Analyte	Initial Calibration Verification			Continuing Calibration Verification					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	504.0	548.60	109	10000.0	9885.00	99	9650.00	96	MS
Antimony	199.0	194.00	97	500.0	499.00	100	509.30	102	MS
Arsenic	200.0	199.30	100	500.0	505.50	101	502.50	100	MS
Barium	99.0	105.30	106	2500.0	2511.00	100	2520.00	101	MS
Beryllium	99.0	99.66	101	500.0	512.30	102	510.20	102	MS
Cadmium	99.0	102.70	104	500.0	506.20	101	513.90	103	MS
Calcium	2005.0	2121.00	106	50000.0	50630.00	101	51310.00	103	MS
Chromium	98.0	103.10	105	500.0	511.20	102	507.90	102	MS
Cobalt	100.0	103.20	103	500.0	512.20	102	504.30	101	MS
Copper	98.0	106.00	108	1000.0	1029.00	103	1017.00	102	MS
Iron	1016.0	1063.00	105	25000.0	25650.00	103	25370.00	101	MS
Lead	200.0	202.80	101	500.0	503.60	101	508.40	102	MS
Magnesium	1215.0	1318.00	108	50000.0	49570.00	99	50650.00	101	MS
Manganese	100.0	103.70	104	1000.0	1019.00	102	1025.00	102	MS
Nickel	101.0	106.10	105	500.0	513.80	103	505.70	101	MS
Potassium	2004.0	2065.00	103	25000.0	25200.00	101	25340.00	101	MS
Selenium	206.0	199.50	97	500.0	505.60	101	505.10	101	MS
Silver	100.0	91.91	92	500.0	505.80	101	509.10	102	MS
Sodium	2019.0	2158.00	107	50000.0	50550.00	101	51910.00	104	MS
Thallium	206.0	205.00	100	500.0	503.60	101	509.00	102	MS
Vanadium	100.0	101.60	102	500.0	507.50	102	505.20	101	MS
Zinc	205.0	207.60	101	1000.0	1023.00	102	1027.00	103	MS

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

**Metals****2A-IN****INITIAL AND CONTINUING CALIBRATION VERIFICATION**Lab Name: Chemtech Consulting Group Contract: EPW09038Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1Initial Calibration Verification Source: EPA-0307Continuing Calibration Verification Source: MP9292

Concentration Units: ug/L

Analyte	Initial Calibration Verification			Continuing Calibration Verification					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000.0	9583.00	96	9639.00	96	MS
Antimony				500.0	509.50	102	516.90	103	MS
Arsenic				500.0	504.00	101	504.60	101	MS
Barium				2500.0	2503.00	100	2514.00	101	MS
Beryllium				500.0	500.10	100	507.80	102	MS
Cadmium				500.0	515.50	103	521.50	104	MS
Calcium				50000.0	50640.00	101	51390.00	103	MS
Chromium				500.0	504.90	101	508.70	102	MS
Cobalt				500.0	504.10	101	505.60	101	MS
Copper				1000.0	1011.00	101	1013.00	101	MS
Iron				25000.0	25520.00	102	25730.00	103	MS
Lead				500.0	505.60	101	507.70	102	MS
Magnesium				50000.0	48650.00	97	49960.00	100	MS
Manganese				1000.0	1023.00	102	1030.00	103	MS
Nickel				500.0	505.60	101	505.50	101	MS
Potassium				25000.0	24820.00	99	25120.00	100	MS
Selenium				500.0	521.70	104	512.10	102	MS
Silver				500.0	508.30	102	512.80	103	MS
Sodium				50000.0	49500.00	99	50940.00	102	MS
Thallium				500.0	504.80	101	506.50	101	MS
Vanadium				500.0	501.60	100	503.20	101	MS
Zinc				1000.0	1037.00	104	1041.00	104	MS

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

**Metals****2A-IN****INITIAL AND CONTINUING CALIBRATION VERIFICATION**Lab Name: Chemtech Consulting Group Contract: EPW09038Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1Initial Calibration Verification Source: EPA-0307Continuing Calibration Verification Source: MP9292

Concentration Units: ug/L

Analyte	Initial Calibration Verification			Continuing Calibration Verification				M
	True	Found	%R(1)	True	Found	%R(1)	Found	
Aluminum				10000.0	9337.00	93		MS
Antimony				500.0	509.40	102		MS
Arsenic				500.0	487.30	97		MS
Barium				2500.0	2445.00	98		MS
Beryllium				500.0	497.40	99		MS
Cadmium				500.0	517.50	104		MS
Calcium				50000.0	50360.00	101		MS
Chromium				500.0	495.30	99		MS
Cobalt				500.0	489.60	98		MS
Copper				1000.0	983.20	98		MS
Iron				25000.0	25040.00	100		MS
Lead				500.0	501.20	100		MS
Magnesium				50000.0	49280.00	99		MS
Manganese				1000.0	1012.00	101		MS
Nickel				500.0	486.10	97		MS
Potassium				25000.0	24520.00	98		MS
Selenium				500.0	504.40	101		MS
Silver				500.0	504.40	101		MS
Sodium				50000.0	50400.00	101		MS
Thallium				500.0	500.30	100		MS
Vanadium				500.0	491.00	98		MS
Zinc				1000.0	1022.00	102		MS

(1) Control Limits: Mercury 85-115; Other Metals 90-110; Cyanide 85-115

# Metals

## 3-IN BLANKS

Lab Name: Chemtech Consulting Group

Contract: EPW09038

Lab Code: CHEM

Case No.: 41926

Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1

Preparation Blank Matrix (soil/water/wipe/filter): WATER

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank			
		C	1	C	2	C	3	C		C	M	
Aluminum	20.000	U	7.769	J	3.255	J	3.880	J	20.000	U	MS	
Antimony	1.024	J	0.776	J	0.691	J	0.739	J	2.000	U	MS	
Arsenic	1.000	U	0.172	J	0.177	J	0.246	J	1.000	U	MS	
Barium	10.000	U	1.356	J	0.999	J	1.433	J	10.000	U	MS	
Beryllium	0.174	J	0.307	J	0.283	J	0.249	J	0.156	J	MS	
Cadmium	1.000	U	0.207	J	1.000	U	0.142	J	1.000	U	MS	
Calcium	500.000	U	19.850	J	16.750	J	29.040	J	500.000	U	MS	
Chromium	0.134	J	0.262	J	0.176	J	0.221	J	2.000	U	MS	
Cobalt	1.000	U	0.204	J	0.159	J	0.182	J	1.000	U	MS	
Copper	2.000	U	0.355	J	0.270	J	0.571	J	2.000	U	MS	
Iron	200.000	U	16.920	J	200.000	U	24.510	J	200.000	U	MS	
Lead	0.087	J	0.232	J	0.151	J	0.280	J	1.000	U	MS	
Magnesium	500.000	U	24.180	J	17.800	J	28.520	J	6.336	J	MS	
Manganese	1.000	U	0.367	J	0.269	J	0.376	J	1.000	U	MS	
Nickel	1.000	U	0.233	J	0.248	J	0.350	J	1.000	U	MS	
Potassium	-12.640	J	11.120	J	500.000	U	14.910	J	500.000	U	MS	
Selenium	5.000	U	5.000	U	5.000	U	5.000	U	5.000	U	MS	
Silver	1.000	U	0.210	J	0.167	J	0.211	J	1.000	U	MS	
Sodium	18.640	J	36.670	J	47.330	J	176.300	J	29.140	J	MS	
Thallium	0.107	J	0.244	J	0.188	J	0.191	J	1.000	U	MS	
Vanadium	5.000	U	0.123	J	5.000	U	0.473	J	5.000	U	MS	
Zinc	-0.250	J	2.000	U	2.000	U	2.000	U	-0.416	J	MS	

**Metals****3-IN  
BLANKS**Lab Name: Chemtech Consulting GroupContract: EPW09038Lab Code: CHEMCase No.: 41926

Mod. Ref. No.: \_\_\_\_\_

SDG No.: MH3BA1

Preparation Blank Matrix (soil/water/wipe/filter): \_\_\_\_\_

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): \_\_\_\_\_

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank			
		C	1	C	2	C	3	C		C	M	
Aluminum			2.871	J	3.424	J						MS
Antimony			0.720	J	0.688	J						MS
Arsenic			1.000	U	0.165	J						MS
Barium			1.138	J	0.998	J						MS
Beryllium			0.325	J	0.275	J						MS
Cadmium			0.141	J	1.000	U						MS
Calcium			20.500	J	15.440	J						MS
Chromium			0.141	J	0.110	J						MS
Cobalt			0.128	J	0.103	J						MS
Copper			0.434	J	0.312	J						MS
Iron			15.510	J	20.100	J						MS
Lead			0.175	J	0.101	J						MS
Magnesium			18.820	J	14.470	J						MS
Manganese			0.341	J	0.192	J						MS
Nickel			0.307	J	0.212	J						MS
Potassium			22.060	J	25.070	J						MS
Selenium			5.000	U	5.000	U						MS
Silver			0.200	J	0.144	J						MS
Sodium			202.600	J	249.100	J						MS
Thallium			0.157	J	0.083	J						MS
Vanadium			5.000	U	5.000	U						MS
Zinc			2.000	U	2.000	U						MS

**Metals**  
**4B-IN**  
**ICP-MS INTERFERENCE CHECK SAMPLE**

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
ICP-MS Instrument ID: P6 ICS Source: MS8055

Concentration Units: ug/L

Analyte	True		Found			
	Sol.A	Sol.AB	Sol.A	%R	Sol. AB	%R
Antimony	1.5	22.0	1.4	93	21.1	96
Arsenic	0.1	19.0	0.22	220	20.6	108
Barium	1.2	22.0	1.4	117	21.3	97
Beryllium	0.0	19.0	0.57	0	20.7	109
Cadmium	0.7	20.0	1.3	186	21.1	106
Chromium	21.0	40.0	20.9	100	40.7	102
Cobalt	1.0	20.0	1.3	130	21.2	106
Copper	8.0	25.0	8.6	108	28.0	112
Lead	4.0	25.0	4.6	115	24.8	99
Manganese	7.0	27.0	8.3	119	28.0	104
Nickel	6.0	24.0	6.6	110	26.9	112
Selenium	0.3	19.0	0.28	93	22.0	116
Silver	0.0	18.0	0.082	0	19.2	107
Thallium	0.0	21.0	0.28	0	20.3	97
Vanadium	0.5	19.0	-0.14	-28	18.6	98
Zinc	11.0	29.0	12.6	115	31.5	109

**Metals**  
**4B-IN**  
**ICP-MS INTERFERENCE CHECK SAMPLE**

Lab Name: Chemtech Consulting Group Contract: EPW09038  
Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
ICP-MS Instrument ID: P6 ICS Source: MS8055  
Concentration Units: ug/L

Analyte	True		Found			
	Sol.A	Sol.AB	Sol.A	%R	Sol. AB	%R
Aluminum	100000.0	100000.0	98100	98	98300	98
Calcium	100000.0	100000.0	102000	102	102000	102
Iron	100000.0	100000.0	101000	101	102000	102
Magnesium	100000.0	100000.0	102000	102	102000	102
Potassium	100000.0	100000.0	103000	103	103000	103
Sodium	100000.0	100000.0	104000	104	104000	104

**Metals**

5A-IN

**MATRIX SPIKE SAMPLE RECOVERY**

EPA SAMPLE NO.

MH3BA6S

Lab Name: Chemtech Consulting GroupContract: EPW09038Lab Code: CHEMCase No.: 41926Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1Matrix: WATER

% Solids for Sample: \_\_\_\_\_

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	91.1600		1.3600	J	100.00	90		MS
Arsenic	75 - 125	157.3000		120.5000		40.00	92		MS
Barium	75 - 125	2395.0000		600.4000		2000.00	90		MS
Beryllium	75 - 125	46.7800		0.1930	J	50.00	93		MS
Cadmium	75 - 125	49.3300		0.3280	J	50.00	98		MS
Chromium	75 - 125	191.2000		11.5900		200.00	90		MS
Cobalt	75 - 125	450.1000		0.9850	J	500.00	90		MS
Copper	75 - 125	227.6000		2.2900		250.00	90		MS
Lead	75 - 125	20.8400		1.1660		20.00	98		MS
Manganese	75 - 125	1758.0000		1324.0000		500.00	87		MS
Nickel	75 - 125	452.4000		14.0400		500.00	88		MS
Selenium	75 - 125	96.6500		1.1250	J	100.00	96		MS
Silver	75 - 125	43.5600		0.1110	J	50.00	87		MS
Thallium	75 - 125	46.9200		1.0000	U	50.00	94		MS
Vanadium	75 - 125	514.7000		65.7900		500.00	90		MS
Zinc	75 - 125	481.2000		10.2900		500.00	94		MS

Comments:

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**5B-IN**  
**POST-DIGESTION SPIKE SAMPLE RECOVERY**

EPA SAMPLE NO.

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Lab Name: \_\_\_\_\_ Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ Mod. Ref. No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: \_\_\_\_\_

Concentration Units: (ug/L or mg/Kg dry weight):

Analyte	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)		Spike Added (SA)	%R	Q	M
			C	C				

Comments:


**Metals**

6-IN

**DUPLICATES**

EPA SAMPLE NO.

MH3BA6D

Lab Name: Chemtech Consulting GroupContract: EPW09038Lab Code: CHEMCase No.: 41926Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1Matrix: WATER

% Solids for Sample: \_\_\_\_\_

Concentration Units:(ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)		Duplicate (D)		RPD	Q	M
		C		C				
Aluminum		216.3000		214.1000		1		MS
Antimony		1.3600	J	1.4630	J	7		MS
Arsenic		120.5000		120.7000		0		MS
Barium		600.4000		610.5000		2		MS
Beryllium		0.1930	J	0.1570	J	21		MS
Cadmium		0.3280	J	0.4870	J	39		MS
Calcium		44200.0000		44610.0000		1		MS
Chromium		11.5900		11.6300		0		MS
Cobalt	1.0000	0.9850	J	1.0330		5		MS
Copper	2.0000	2.2900		2.2940		0		MS
Iron		2905.0000		2938.0000		1		MS
Lead	1.0000	1.1660		1.1630		0		MS
Magnesium		19380.0000		19500.0000		1		MS
Manganese		1324.0000		1338.0000		1		MS
Nickel		14.0400		14.0300		0		MS
Potassium		7201.0000		7296.0000		1		MS
Selenium		1.1250	J	1.2430	J	10		MS
Silver		0.1110	J	0.0760	J	37		MS
Sodium		692750.0000		683750.0000		1		MS
Thallium		1.0000	U	1.0000	U			MS
Vanadium		65.7900		64.9000		1		MS
Zinc	2.0000	10.2900		6.8270		40	*	MS

# Metals

## 7 - IN LABORATORY CONTROL SAMPLE

Lab Name: Chemtech Consulting GroupContract: EPW09038Lab Code: CHEMCase No.: 41926

Mod. Ref. No.: \_\_\_\_\_

SDG No.: MH3BA1

Analyte	Aqueous/Water (ug/L), Soil Sediment (mg/Kg), Wipe/Filter (ug)		
	True	Found	%R
Aluminum	40.00	41.08	103
Antimony	4.00	3.87	97
Arsenic	2.00	2.23	112
Barium	20.00	19.72	99
Beryllium	2.00	2.16	108
Cadmium	2.00	2.13	106
Calcium	1000.00	1020.00	102
Chromium	4.00	4.13	103
Cobalt	2.00	2.09	104
Copper	4.00	4.23	106
Iron	400.00	400.40	100
Lead	2.00	2.10	105
Magnesium	1000.00	1026.00	103
Manganese	2.00	2.26	113
Nickel	2.00	2.21	110
Potassium	1000.00	1003.00	100
Selenium	10.00	9.38	94
Silver	2.00	2.12	106
Sodium	1000.00	1051.00	105
Thallium	2.00	2.10	105
Vanadium	10.00	9.63	96
Zinc	4.00	4.26	106

**Metals**

8-IN

**ICP-AES and ICP-MS SERIAL DILUTIONS**

EPA SAMPLE NO.

MH3BA6L

Lab Name: Chemtech Consulting Group

Contract: EPW09038

Lab Code: CHEM

Case No.: 41926

Mod. Ref. No.: \_\_\_\_\_

SDG No.: MH3BA1

Matrix: WATER

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference		Q	M
					Q	M		
Aluminum	216.30		216.40		0			MS
Antimony	1.36	J	10.00	U	100			MS
Arsenic	120.50		116.55		3			MS
Barium	600.40		597.00		1			MS
Beryllium	0.19	J	0.86	J	353			MS
Cadmium	0.33	J	5.00	U	100			MS
Calcium	44200.00		44625.00		1			MS
Chromium	11.59		12.16		5			MS
Cobalt	0.99	J	1.23	J	24			MS
Copper	2.29		2.90	J	27			MS
Iron	2905.00		2988.50		3			MS
Lead	1.17		1.15	J	2			MS
Magnesium	19380.00		19800.00		2			MS
Manganese	1324.00		1351.00		2			MS
Nickel	14.04		15.06		7			MS
Potassium	7201.00		7440.00		3			MS
Selenium	1.13	J	25.00	U	100			MS
Silver	0.11	J	5.00	U	100			MS
Sodium	692750.00		729375.10		5			MS
Thallium	1.00	U	5.00	U				MS
Vanadium	65.79		63.00		4			MS
Zinc	10.29		11.07		8			MS

**Metals****9-IN****METHOD DETECTION LIMITS (MDL) (ANNUALLY)**Lab Name: Chemtech Consulting Group Contract: EPW09038Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1Instrument Type: MS Instrument ID: P6 Date: 01/11/2011Preparation Method: 200.8Concentration Units (ug/L, mg/kg, or ug): UG/L

Analyte	Wavelength/Mass	MDL
Aluminum	27.00	1.2
Antimony	121.00	0.17
Arsenic	75.00	0.14
Barium	137.00	0.29
Beryllium	9.00	0.061
Cadmium	111.00	0.11
Calcium	44.00	6.3
Chromium	52.00	0.078
Cobalt	59.00	0.054
Copper	63.00	0.097
Iron	57.00	6.6
Lead	208.00	0.051
Magnesium	24.00	5.5
Manganese	55.00	0.15
Nickel	60.00	0.15
Potassium	39.00	8.0
Selenium	82.00	0.63
Silver	107.00	0.070
Sodium	23.00	5.7
Thallium	205.00	0.074
Vanadium	51.00	0.11
Zinc	66.00	0.24

Comments: \_\_\_\_\_  
\_\_\_\_\_

**Metals**  
**11-IN**  
**INTERNAL STANDARD ASSOCIATION**

Lab Name: Chemtech Consulting Group Contract: EPW09038

Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1

ICP-MS Instrument ID: P6 Date: 11/17/11

Analyte	Assoc. Internal Standard 1	Assoc. Internal Standard 2
Aluminum	6Li	45Sc
Antimony	103Rh	159Tb
Arsenic	45Sc	103Rh
Barium	103Rh	159Tb
Beryllium	6Li	45Sc
Cadmium	103Rh	159Tb
Calcium	6Li	45Sc
Chromium	45Sc	103Rh
Cobalt	45Sc	103Rh
Copper	45Sc	103Rh
Iron	45Sc	103Rh
Lead	165Ho	209Bi
Magnesium	6Li	45Sc
Manganese	45Sc	103Rh
Nickel	45Sc	103Rh
Potassium	6Li	45Sc
Selenium	45Sc	103Rh
Silver	103Rh	159Tb
Sodium	6Li	45Sc
Thallium	165Ho	209Bi
Vanadium	45Sc	103Rh
Zinc	45Sc	103Rh

**Metals**

12-IN

**PREPARATION LOG**Lab Name: Chemtech Consulting GroupContract: EPW09038Lab Code: CHEMCase No.: 41926

Mod. Ref. No.:

SDG No.: MH3BA1Preparation Method: 200.8

EPA Sample No.	Preparation Date	Initial Weight/Volume (g) or (mL)	Final Volume (mL)
PBW01	11/14/2011	50.00	50
LCS01	11/14/2011	50.00	50
MH3BB0	11/14/2011	50.00	50
MH3BB1	11/14/2011	50.00	50
MH3BB2	11/14/2011	50.00	50
MH3BB3	11/14/2011	50.00	50
MH3BB5	11/14/2011	50.00	50
MH3BA1	11/14/2011	50.00	50
MH3BA2	11/14/2011	50.00	50
MH3BA3	11/14/2011	50.00	50
MH3BA4	11/14/2011	50.00	50
MH3BA5	11/14/2011	50.00	50
MH3BA7	11/14/2011	50.00	50
MH3BA8	11/14/2011	50.00	50
MH3BA9	11/14/2011	50.00	50
MH3BB4	11/14/2011	50.00	50
MH3BA6	11/14/2011	50.00	50
MH3BA6D	11/14/2011	50.00	50
MH3BA6S	11/14/2011	50.00	50

# Metals

13-IN

## ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: EPW09038  
 Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
 Instrument ID: P6 Analysis Method: MS  
 Start Date: 11/17/2011 End Date: 11/17/2011

EPA Sample NO.	D/F	Time	Analytes																								
			A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K S	S E	A G	N A	T L	V V	Z N	C N	
TUNE	1.0	2315				X				X			X	X													
S0	1.0	0023	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.0	0031	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.0	0118	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.0	0126	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.0	0134	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.0	0142	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICV12	1.0	0149	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICB12	1.0	0157	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSA12	1.0	0205		X	X	X	X	X		X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	
ICSAB12	1.0	0213		X	X	X	X	X		X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	
ICSA12	10	0221	X						X				X	X			X		X			X			X		
ICSAB12	10	0229	X						X				X	X			X		X			X			X		
CCV44	1.0	0237	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB44	1.0	0245	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PBW01	1.0	0253	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0300																									
LCS01	1.0	0308	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ	1.0	0316																									
MH3BB0	1.0	0324	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MH3BB1	1.0	0332	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MH3BB2	1.0	0340	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ	25	0348																									
ZZZZZZ	25	0356																									
ZZZZZZ	25	0404																									
CCV45	1.0	0412	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB45	1.0	0419	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MH3BB3	1.0	0427	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MH3BB5	1.0	0435	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ	25	0443																									
ZZZZZZ	25	0451																									
MH3BA1	1.0	0459	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MH3BA2	1.0	0507	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MH3BA3	1.0	0515	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MH3BA1	25	0523															X		X		X		X		X		
MH3BA2	25	0531														X		X	X			X			X		
MH3BA3	25	0538																								X	

**Metals**

**13-IN**

**ANALYSIS RUN LOG**

Lab Name: Chemtech Consulting Group Contract: EPW09038  
 Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1  
 Instrument ID: P6 Analysis Method: MS  
 Start Date: 11/17/2011 End Date: 11/17/2011

EPA Sample NO.	D/F	Time	Analytes																									
			A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K K	S E	A G	N A	T L	V V	Z N	C C		
CCV46	1.0	0546	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB46	1.0	0554	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
MH3BA4	1.0	0602	X	X	X	X	X	X		X	X	X	X						X	X	X	X		X	X	X		
MH3BA5	1.0	0610	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X		
MH3BA7	1.0	0618	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X		
MH3BA8	1.0	0626	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X		
MH3BA9	1.0	0634	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X		
MH3BA4	25	0642							X						X	X								X				
MH3BA5	25	0650															X							X				
MH3BA7	25	0657															X							X				
MH3BA8	25	0705															X							X				
MH3BA9	25	0713															X							X				
CCV47	1.0	0721	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB47	1.0	0729	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MH3BB4	1.0	0737	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MH3BA6	1.0	0745	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MH3BA6D	1.0	0753	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MH3BA6S	1.0	0801		X	X	X	X	X		X	X	X		X		X		X		X		X		X		X		
MH3BA6L	5.0	0809	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MH3BB4	25	0816																						X				
MH3BA6	25	0824																						X				
MH3BA6D	25	0832																						X				
ZZZZZZ	25	0840																										
MH3BA6L	125	0848																						X				
CCV48	1.0	0856	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB48	1.0	0904	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

**Metals**

14 - IN

**ICP-MS Tune**Lab Name: Chemtech Consulting Group Contract: EPW09038Lab Code: CHEM Case No.: 41926 Mod. Ref. No.: \_\_\_\_\_ SDG No.: MH3BA1ICP-MS Instrument ID: P6 Date: 11/16/2011

Element - Mass	Avg. Measured Mass (amu)	Average Peak Width (amu)	%Height	%RSD
Be_9	9.01	0.76	5.0	0.972
Mg_24	23.99	0.76	5.0	0.146
Mg_25	24.99	0.76	5.0	1.305
Mg_26	25.98	0.76	5.0	0.550
Co_59	58.93	0.76	5.0	0.460
In_113	112.90	0.71	5.0	1.323
In_115	114.90	0.71	5.0	0.542
Ce_140	139.91	0.76	5.0	0.581
Pb_206	205.97	0.76	5.0	0.397
Pb_207	206.98	0.76	5.0	0.300
Pb_208	207.98	0.76	5.0	0.333

Comments:

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## Metals

15-IN

## ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Chemtech Consulting Group

Contract: EPW09038

Lab Code: CHEM Case No.: 41926

Mod. Ref. No.: SDG NO.: MH3BA1

ICP-MS Instrument ID: P6

Start Date: 11/17/2011 End Date: 11/17/2011

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 209Bi	Q	Element 159Tb	Q	Element 45Sc	Q	Element 6Li	Q	Element 103Rh	Q
S0	0023	100		100		100		100		100	
S	0031	102		101		101		98		101	
S	0118	98		97		94		92		94	
S	0126	104		104		102		101		101	
S	0134	101		103		100		97		98	
S	0142	104		107		101		97		99	
ICV12	0149	106		106		101		97		103	
ICB12	0157	106		105		102		98		104	
ICSA12	0205	99		102		94		92		94	
ICSAB12	0213	99		103		94		92		94	
ICSA12	0221	103		103		97		94		99	
ICSAB12	0229	102		102		96		94		97	
CCV44	0237	100		101		96		93		96	
CCB44	0245	103		101		98		97		99	
PBW01	0253	105		104		99		97		102	
ZZZZZZ	0300										
LCS01	0308	105		104		99		98		102	
ZZZZZZ	0316										
MH3BB0	0324	101		102		98		97		97	
MH3BB1	0332	102		102		97		96		97	
MH3BB2	0340	101		100		95		94		95	
ZZZZZZ	0348										
ZZZZZZ	0356										
ZZZZZZ	0404										
CCV45	0412	101		102		94		93		95	
CCB45	0419	108		105		98		97		101	
MH3BB3	0427	104		103		98		96		98	
MH3BB5	0435	105		103		96		96		97	
ZZZZZZ	0443										
ZZZZZZ	0451										
MH3BA1	0459	101		107		96		94		93	
MH3BA2	0507	105		108		98		94		96	
MH3BA3	0515	98		102		91		90		89	
MH3BA1	0523	108		108		101		104		103	
MH3BA2	0531	104		102		93		96		96	
MH3BA3	0538	100		98		88		91		92	
CCV46	0546	98		97		86		89		89	
CCB46	0554	102		99		88		91		93	
MH3BA4	0602	96		98		89		92		86	
MH3BA5	0610	93		95		83		85		83	
MH3BA7	0618	94		94		83		83		84	
MH3BA8	0626	94		93		82		83		83	
MH3BA9	0634	94		94		82		84		82	
MH3BA4	0642	100		97		84		87		89	
MH3BA5	0650	98		95		81		86		87	

**Metals****15-IN****ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY**Lab Name: Chemtech Consulting GroupContract: EPW09038Lab Code: CHEM Case No.: 41926Mod. Ref. No.: \_\_\_\_\_ SDG NO.: MH3BA1ICP-MS Instrument ID: P6Start Date: 11/17/2011 End Date: 11/17/2011

EPA Sample No.	Time	Internal Standards %RI For:									
		Element 209Bi	Q	Element 159Tb	Q	Element 45Sc	Q	Element 6Li	Q	Element 103Rh	Q
MH3BA7	0657	99		94		81		83		87	
MH3BA8	0705	98		94		81		84		86	
MH3BA9	0713	98		94		80		82		86	
CCV47	0721	96		94		80		83		84	
CCB47	0729	101		96		83		86		89	
MH3BB4	0737	91		91		78		79		79	
MH3BA6	0745	91		91		78		81		79	
MH3BA6D	0753	90		90		77		80		78	
MH3BA6S	0801	89		89		76		79		77	
MH3BA6L	0809	94		91		77		79		81	
MH3BB4	0816	97		92		78		81		83	
MH3BA6	0824	96		92		78		81		83	
MH3BA6D	0832	96		92		77		80		83	
ZZZZZZ	0840										
MH3BA6L	0848	96		91		76		81		82	
CCV48	0856	95		92		77		81		81	
CCB48	0904	98		92		77		82		83	

**Metals**

16-IN

**INITIAL CALIBRATION**Lab Name: Chemtech Consulting GroupContract: EPW09038Lab Code: CHEMCase No.: 41926

Mod. Ref. No.:

SDG No.: MH3BA1Instrument ID: P6Start Date: 11/17/11Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	0.00000	0	20.0	19	3	2500	2624	-5
Antimony	0.00	0.00000	0	2.00	1.8	12	125	124	1
Arsenic	0.00	0.00000	0	1.00	0.81	20	125	126	-1
Barium	0.00	0.00000	0	10.0	9.5	5	625	631	-1
Beryllium	0.00	0.00000	0	1.00	1.2	-16	125	128	-2
Cadmium	0.00	0.00000	0	1.00	0.97	3	125	128	-2
Calcium	0.00	0.00000	0	500	491	2	12500	12830	-3
Chromium	0.00	0.00000	0	2.00	2.0	-1	125	130	-4
Cobalt	0.00	0.00000	0	1.00	0.98	2	125	130	-4
Copper	0.00	0.00000	0	2.00	2.1	-4	250	264	-6
Iron	0.00	0.00000	0	200	193	4	6250	6437	-3
Lead	0.00	0.00000	0	1.00	0.97	3	125	127	-2
Magnesium	0.00	0.00000	0	500	496	1	12500	12790	-2
Manganese	0.00	0.00000	0	1.00	1.0	-4	250	259	-3
Nickel	0.00	0.00000	0	1.00	1.0	-1	125	133	-7
Potassium	0.00	0.00000	0	500	490	2	6250	6553	-5
Selenium	0.00	0.00000	0	5.00	4.1	18	125	129	-3
Silver	0.00	0.00000	0	1.00	0.94	6	125	127	-2
Sodium	0.00	0.00000	0	500	501	0	12500	12820	-3
Thallium	0.00	0.00000	0	1.00	0.95	5	125	127	-1
Vanadium	0.00	0.00000	0	5.00	4.4	12	125	128	-2
Zinc	0.00	0.00000	0	2.00	1.9	7	250	259	-3

Control Limits  $\pm$  30

**Metals**

16-IN

**INITIAL CALIBRATION**Lab Name: Chemtech Consulting GroupContract: EPW09038Lab Code: CHEMCase No.: 41926

Mod. Ref. No.:

SDG No.: MH3BA1Instrument ID: P6Start Date: 11/17/11Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	5000	5097	-2	10000	9817	2	20000	19070	5
Antimony	250	247	1	500	496	1	1000	1003	0
Arsenic	250	252	-1	500	504	-1	1000	997	0
Barium	1250	1260	-1	2500	2504	0	5000	4995	0
Beryllium	250	254	-1	500	506	-1	1000	996	0
Cadmium	250	251	0	500	498	0	1000	1000	0
Calcium	25000	25190	-1	50000	50040	0	100000	99890	0
Chromium	250	256	-2	500	508	-2	1000	994	1
Cobalt	250	256	-2	500	509	-2	1000	993	1
Copper	500	518	-4	1000	1022	-2	2000	1983	1
Iron	12500	12760	-2	25000	25370	-1	50000	49730	1
Lead	250	251	0	500	501	0	1000	999	0
Magnesium	25000	24650	1	50000	48750	3	100000	98050	2
Manganese	500	510	-2	1000	1010	-1	2000	1992	0
Nickel	250	258	-3	500	511	-2	1000	992	1
Potassium	12500	12610	-1	25000	25100	0	50000	49880	0
Selenium	250	251	0	500	509	-2	1000	995	1
Silver	250	253	-1	500	499	0	1000	999	0
Sodium	25000	24890	0	50000	49540	1	100000	100200	0
Thallium	250	251	-1	500	501	0	1000	999	0
Vanadium	250	254	-2	500	504	-1	1000	997	0
Zinc	500	514	-3	1000	1013	-1	2000	1989	1

Control Limits  $\pm$  30

**Performance Report****Sample details**

Sample name : TUNE

Acquired at : 11/16/2011 11:15:03 PM

Report name : ISM01.2 [03/09/2010 11:16:01 AM]

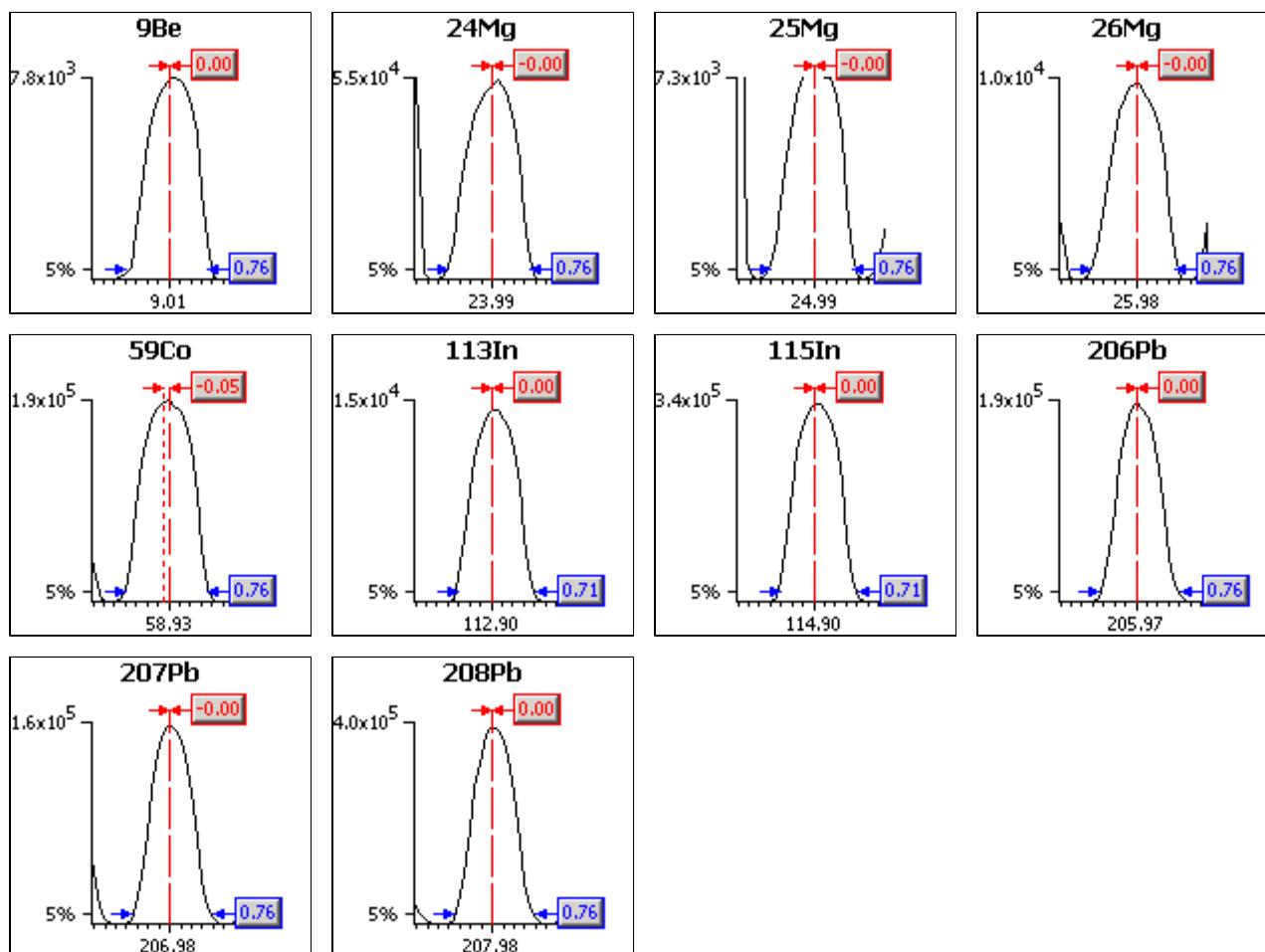
**Mass Calibration verification****Acquisition parameters**

Sweeps : 20

Dwell : 3.0 mSecs

Point spacing : 0.05 amu

Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.85	0.65	0.10	0.76	0.00
24Mg	0.85	0.65	0.10	0.76	-0.00
25Mg	0.85	0.65	0.10	0.76	-0.00
26Mg	0.85	0.65	0.10	0.76	-0.00
59Co	0.85	0.65	0.10	0.76	-0.05
113In	0.85	0.65	0.10	0.71	0.00
115In	0.85	0.65	0.10	0.71	0.00
206Pb	0.85	0.65	0.10	0.76	0.00
207Pb	0.85	0.65	0.10	0.76	-0.00
208Pb	0.85	0.65	0.10	0.76	0.00

**Sample details**

Sample name : TUNE

Acquired at : 11/16/2011 11:15:03 PM

Report name : ISM01.2 [03/09/2010 11:16:01 AM]

**Tune conditions**

Major	Minor	Global	Add. Gases
Extraction	-220	Lens 2 -51.8	Standard resolution n/a
Lens 1	0.3	Lens 3 -187.5	High resolution n/a
Focus	20.8	Forward power 1350	Analogue Detector n/a
D1	-37.6	Horizontal 90	PC Detector n/a
Pole Bias	1.0	Vertical 450	
Hexapole Bias	-3.0	D2 -160	
Nebuliser	0.80	DA -80.0	
Sampling Depth	130	Cool 13.0	
		Auxiliary 0.90	

**Sensitivity and stability results****Acquisition parameters**

Sweeps : 130

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	59Co	138Ba++	113In	115In
	Dwell (mSecs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	5.0%	-	5.0%	5.0%
	Countrate	-	>2000	>8000	>1000	>1000	>25000	-	>2500	>50000
1	11:15:26 PM	0.000	7331.881	49624.503	7885.253	9807.981	190526.71	4623.825	14856.182	342002.29
2	11:15:55 PM	0.000	7425.776	49496.367	7861.393	9718.689	191314.83	4670.763	14776.099	341199.59
3	11:16:23 PM	0.000	7462.718	49580.504	7894.488	9809.521	192065.58	4707.699	14469.632	338210.53
4	11:16:52 PM	0.769	7283.395	49463.947	8018.404	9698.676	190702.11	4725.397	14490.422	337759.27
5	11:17:21 PM	0.000	7383.446	49467.035	7729.783	9799.514	189727.72	4576.887	14444.992	339552.58
X		0.154	7377.443	49526.471	7877.864	9766.876	190867.39	4660.914	14607.465	339744.85
$\sigma$		0.34	71.70	72.25	102.81	53.73	877.22	60.99	193.26	1840.24
%RSD		223.607	0.972	0.146	1.305	0.550	0.460	1.309	1.323	0.542

Run	Time	138Ba	140Ce	156Ce O	206Pb	207Pb	208Pb	220Bkg
	Dwell (mSecs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	-	-	5.0%	5.0%	5.0%	-
	Countrate	-	-	-	>20000	>20000	>40000	<1
1	11:15:26 PM	299404.98	417483.93	6432.217	189557.02	160853.59	401229.53	0.000
2	11:15:55 PM	299406.55	415734.00	6372.960	187709.79	161258.89	400841.95	0.000
3	11:16:23 PM	298920.37	415580.39	6382.964	189030.11	160772.69	401401.96	0.769
4	11:16:52 PM	297843.61	411634.74	6426.060	188630.26	159989.35	398126.82	0.769
5	11:17:21 PM	296805.42	412630.55	6389.121	189462.70	160389.18	400698.78	0.000
X		298476.19	414612.72	6400.664	188877.97	160652.74	400459.81	0.308
$\sigma$		1131.06	2410.13	26.71	750.36	482.62	1334.74	0.42
%RSD		0.379	0.581	0.417	0.397	0.300	0.333	136.931

**Ratio results**

Run	Time	156Ce O/140Ce	138Ba++/138Ba
	Ratio limits	<0.0200	<0.0300
1	11:15:26 PM	0.015	0.015
2	11:15:55 PM	0.015	0.016
3	11:16:23 PM	0.015	0.016
4	11:16:52 PM	0.016	0.016
5	11:17:21 PM	0.015	0.015
X		0.0154	0.0156
$\sigma$		0.00	0.00
%RSD		0.7316	1.2324

Result : The performance report passed.

**Fully Quantitative Concentrations**

Id	Label	9Be	10B	23Na	24Mg	25Mg	26Mg	27Al	28Si	31P
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
3	S1 (S)	1.000	5.000	500.000	500.000	500.000	500.000	20.000	5.000	0.000
4	S2 (S)	125.000	125.000	12500.000	12500.000	12500.000	12500.000	2500.000	125.000	2500.000
5	S3 (S)	250.000	250.000	25000.000	25000.000	25000.000	25000.000	5000.000	250.000	5000.000
6	S4 (S)	500.000	500.000	50000.000	50000.000	50000.000	50000.000	10000.000	500.000	10000.000
7	S5 (S)	1000.000	1000.000	100000.000	100000.000	100000.000	100000.000	20000.000	1000.000	20000.000
Id	Label	39K	43Ca	44Ca	47Ti	51V	52Cr	55Mn	54Fe	56Fe
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
3	S1 (S)	500.000	500.000	500.000	5.000	5.000	2.000	1.000	200.000	200.000
4	S2 (S)	6250.000	12500.000	12500.000	125.000	125.000	125.000	250.000	6250.000	6250.000
5	S3 (S)	12500.000	25000.000	25000.000	250.000	250.000	250.000	500.000	12500.000	12500.000
6	S4 (S)	25000.000	50000.000	50000.000	500.000	500.000	500.000	1000.000	25000.000	25000.000
7	S5 (S)	50000.000	100000.000	100000.000	1000.000	1000.000	1000.000	2000.000	50000.000	50000.000
Id	Label	57Fe	59Co	60Ni	61Ni	62Ni	63Cu	65Cu	66Zn	67Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
3	S1 (S)	200.000	1.000	1.000	1.000	1.000	2.000	2.000	2.000	2.000
4	S2 (S)	6250.000	125.000	125.000	125.000	125.000	250.000	250.000	250.000	250.000
5	S3 (S)	12500.000	250.000	250.000	250.000	250.000	500.000	500.000	500.000	500.000
6	S4 (S)	25000.000	500.000	500.000	500.000	500.000	1000.000	1000.000	1000.000	1000.000
7	S5 (S)	50000.000	1000.000	1000.000	1000.000	1000.000	2000.000	2000.000	2000.000	2000.000
Id	Label	68Zn	75As	77Se	78Se	82Se	86Sr	88Sr	94Mo	95Mo
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
3	S1 (S)	2.000	1.000	5.000	5.000	5.000	1.000	1.000	5.000	5.000
4	S2 (S)	250.000	125.000	125.000	125.000	125.000	125.000	125.000	125.000	125.000
5	S3 (S)	500.000	250.000	250.000	250.000	250.000	250.000	250.000	250.000	250.000
6	S4 (S)	1000.000	500.000	500.000	500.000	500.000	500.000	500.000	500.000	500.000
7	S5 (S)	2000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
Id	Label	96Mo	97Mo	98Mo	107Ag	109Ag	106Cd	108Cd	111Cd	118Sn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
3	S1 (S)	5.000	5.000	5.000	1.000	1.000	1.000	1.000	1.000	5.000
4	S2 (S)	125.000	125.000	125.000	125.000	125.000	125.000	125.000	125.000	125.000
5	S3 (S)	250.000	250.000	250.000	250.000	250.000	250.000	250.000	250.000	250.000
6	S4 (S)	500.000	500.000	500.000	500.000	500.000	500.000	500.000	500.000	500.000
7	S5 (S)	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
Id	Label	121Sb	135Ba	137Ba	203Tl	205Tl	206Pb	207Pb	208Pb	232Th
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
3	S1 (S)	2.000	10.000	10.000	1.000	1.000	1.000	1.000	1.000	1.000
4	S2 (S)	125.000	625.000	625.000	125.000	125.000	125.000	125.000	125.000	125.000
5	S3 (S)	250.000	1250.000	1250.000	250.000	250.000	250.000	250.000	250.000	250.000
6	S4 (S)	500.000	2500.000	2500.000	500.000	500.000	500.000	500.000	500.000	500.000
7	S5 (S)	1000.000	5000.000	5000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000
Id	Label	238U								
		ppb								
3	S1 (S)	1.000								
4	S2 (S)	125.000								
5	S3 (S)	250.000								
6	S4 (S)	500.000								
7	S5 (S)	1000.000								

**Calibration Technique**

Use External Drift Correction - Yes  
 Calibrate by - Element

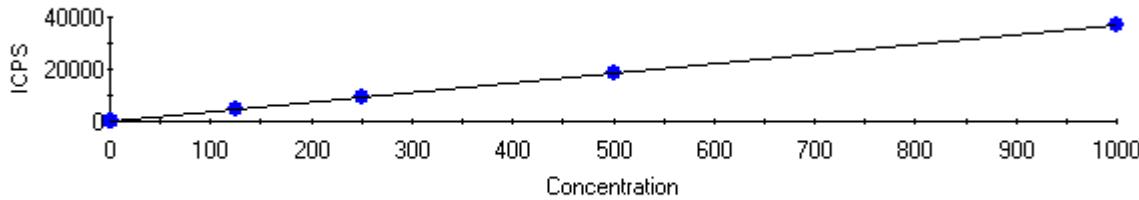
Symbol	Interference Correction	RSF	Calibration Method	Line Fit	Weighting	Forcing	Use for Semi-Quant	Max Error	Minimum Correlation
6Li	Yes	1.00	None				No		
7Li	Yes	1.00	Semi-Quantified				No		
9Be	Yes	0.75	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000	
10B	Yes	0.58	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000	
13C	Yes	0.05	None				No		
23Na	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000	
24Mg	Yes	0.98	Fully-Quantified	Linear	Absolute SD	Through Blank	Yes	0.995000	
25Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000	
26Mg	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000	
27Al	Yes	0.98	Fully-Quantified	Linear	Absolute SD	Through Blank	Yes	0.995000	
28Si	Yes	0.85	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000	
31P	Yes	0.33	Fully-Quantified	Linear	None	Through Blank	Yes		
34S	Yes	0.14	None				No		
37Cl	Yes	0.09	None				No		

39K	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
43Ca	Yes	0.99	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
44Ca	Yes	0.99	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
45Sc	Yes	1.00	None				No	
47Ti	Yes	0.99	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
51V	Yes	0.99	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
52Cr	No	0.98	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
55Mn	Yes	0.95	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
54Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes	
56Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
57Fe	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
59Co	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
60Ni	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
61Ni	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
62Ni	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
63Cu	Yes	0.90	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
65Cu	Yes	0.90	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
66Zn	Yes	0.38	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
67Zn	Yes	0.38	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
68Zn	Yes	0.38	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
75As	Yes	0.07	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
77Se	Yes	0.10	Fully-Quantified	Linear	None	Through Blank	Yes	
78Se	Yes	0.10	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
82Se	Yes	0.10	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
83Kr	Yes	0.01	Semi-Quantified				No	
86Sr	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes	
88Sr	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes	
94Mo	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes	
95Mo	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
96Mo	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes	
97Mo	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
98Mo	Yes	0.98	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
99Ru	Yes	0.96	Semi-Quantified				No	
103Rh	Yes	0.94	None				No	
105Pd	Yes	0.93	Semi-Quantified				No	
107Ag	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
109Ag	Yes	0.93	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
106Cd	Yes	0.57	Fully-Quantified	Linear	None	Through Blank	Yes	
108Cd	Yes	0.57	Fully-Quantified	Linear	None	Through Blank	Yes	
111Cd	Yes	0.57	Fully-Quantified	Linear	None	Through Blank	Yes	
115In	Yes	0.99	None				No	
118Sn	Yes	0.96	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
121Sb	Yes	0.39	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
125Te	Yes	0.33	None				No	
135Ba	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
137Ba	Yes	0.91	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
159Tb	Yes	0.99	None				No	
165Ho	Yes	1.00	None				No	
203Tl	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
206Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	
207Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	
208Pb	Yes	0.97	Fully-Quantified	Linear	None	Through Blank	Yes	
209Bi	Yes	0.92	None				No	
232Th	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	
238U	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	
205Tl	Yes	1.00	Fully-Quantified	Linear	None	Through Blank	Yes	0.995000
77Ar Cl	Yes		Semi-Quantified				No	
137Ba++	Yes		Semi-Quantified				No	
53Cl O	Yes		Semi-Quantified				No	
108Mo O	Yes		Semi-Quantified				No	

**Sample List**

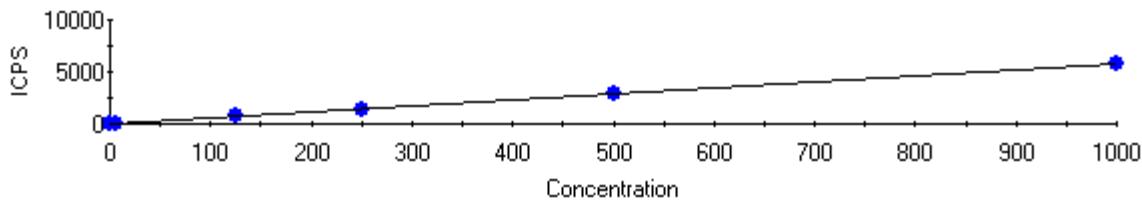
No	Label	Type	Weight	Rack	Row	Col	Height
1	TUNE	Instrument Setup	1.000	1	1	1	144
2	S0 (S0)	Blank	1.000	1	1	1	144
3	S1 (S)	Fully Quant Standard	1.000	1	1	2	144
4	S2 (S)	Fully Quant Standard	1.000	1	1	3	144
5	S3 (S)	Fully Quant Standard	1.000	1	1	4	144
6	S4 (S)	Fully Quant Standard	1.000	1	1	5	144
7	S5 (S)	Fully Quant Standard	1.000	1	1	6	144
8	ICV12	Unknown	1.000	1	1	7	144
9	ICB12	Unknown	1.000	1	1	8	144
10	ICSA12	Unknown	1.000	1	1	9	144
11	ICSAB12	Unknown	1.000	1	1	10	144
12	ICSA12X10	Unknown	1.000	1	1	11	144
13	ICSAB12X10	Unknown	1.000	1	1	12	144
14	CCV44	Unknown	1.000	1	2	1	144

15	CCB44	Unknown	1.000	1	2	2	144
16	PB59234BL PBW01	Unknown	1.000	1	2	3	144
17	PB59238BL PBW01	Unknown	1.000	1	2	4	144
18	PB59234BS LCS01	Unknown	1.000	1	2	5	144
19	PB59238BS LCS01	Unknown	1.000	1	2	6	144
20	C4464-12 MH3BB0	Unknown	1.000	1	2	7	144
21	C4464-13 MH3BB1	Unknown	1.000	1	2	8	144
22	C4464-14 MH3BB2	Unknown	1.000	1	2	9	144
23	C4464-12X25 MH3BB0	Unknown	1.000	1	2	10	144
24	C4464-13X25 MH3BB1	Unknown	1.000	1	2	11	144
25	C4464-14X25 MH3BB2	Unknown	1.000	1	2	12	144
26	CCV45	Unknown	1.000	1	3	1	144
27	CCB45	Unknown	1.000	1	3	2	144
28	C4464-15 MH3BB3	Unknown	1.000	1	3	3	144
29	C4464-17 MH3BB4	Unknown	1.000	1	3	4	144
30	C4464-15X25 MH3BB3	Unknown	1.000	1	3	5	144
31	C4464-17X25 MH3BB4	Unknown	1.000	1	3	6	144
32	C4464-01 MH3BA1	Unknown	1.000	1	3	7	144
33	C4464-02 MH3BA2	Unknown	1.000	1	3	8	144
34	C4464-03 MH3BA3	Unknown	1.000	1	3	9	144
35	C4464-01X25 MH3BA1	Unknown	1.000	1	3	10	144
36	C4464-02X25 MH3BA2	Unknown	1.000	1	3	11	144
37	C4464-03X25 MH3BA3	Unknown	1.000	1	3	12	144
38	CCV46	Unknown	1.000	1	4	1	144
39	CCB46	Unknown	1.000	1	4	2	144
40	C4464-04 MH3BA4	Unknown	1.000	1	4	3	144
41	C4464-05 MH3BA5	Unknown	1.000	1	4	4	144
42	C4464-09 MH3BA7	Unknown	1.000	1	4	5	144
43	C4464-10 MH3BA8	Unknown	1.000	1	4	6	144
44	C4464-11 MH3BA9	Unknown	1.000	1	4	7	144
45	C4464-04X25 MH3BA4	Unknown	1.000	1	4	8	144
46	C4464-05X25 MH3BA5	Unknown	1.000	1	4	9	144
47	C4464-09X25 MH3BA7	Unknown	1.000	1	4	10	144
48	C4464-10X25 MH3BA8	Unknown	1.000	1	4	11	144
49	C4464-11X25 MH3BA9	Unknown	1.000	1	4	12	144
50	CCV47	Unknown	1.000	1	5	1	144
51	CCB47	Unknown	1.000	1	5	2	144
52	C4464-16 MH3BB4	Unknown	1.000	1	5	3	144
53	C4464-06 MH3BA6	Unknown	1.000	1	5	4	144
54	C4464-07 MH3BA6D	Unknown	1.000	1	5	5	144
55	C4464-08 MH3BA6S	Unknown	1.000	1	5	6	144
56	C4464-06LX5 MH3BA6L	Unknown	1.000	1	5	7	144
57	C4464-16X25 MH3BB4	Unknown	1.000	1	5	8	144
58	C4464-06X25 MH3BA6	Unknown	1.000	1	5	9	144
59	C4464-07X25 MH3BA6D	Unknown	1.000	1	5	10	144
60	C4464-08X25 MH3BA6S	Unknown	1.000	1	5	11	144
61	C4464-06LX125 MH3BA6L	Unknown	1.000	1	5	12	144
62	CCV48	Unknown	1.000	2	1	1	144
63	CCB48	Unknown	1.000	2	1	2	144

**Fully Quant Calibration****9Be FQ Block 1**

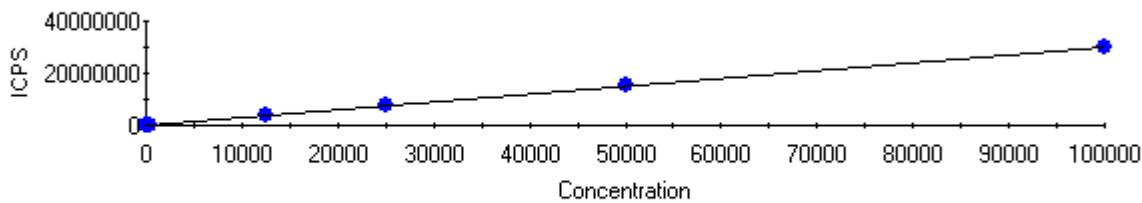
Intercept CPS=11.634492 Intercept Conc=0.315091  
Sensitivity=36.924284 Correlation Coeff=0.999968

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	11.63	0.00
S1 (S)	1.000	1.161	0.161	54.50	16.08
S2 (S)	125.000	127.720	2.720	4727.59	2.18
S3 (S)	250.000	253.473	3.473	9370.96	1.39
S4 (S)	500.000	505.570	5.570	18679.44	1.11
S5 (S)	1000.000	996.007	3.993	36788.47	0.40

**10B FQ Block 1**

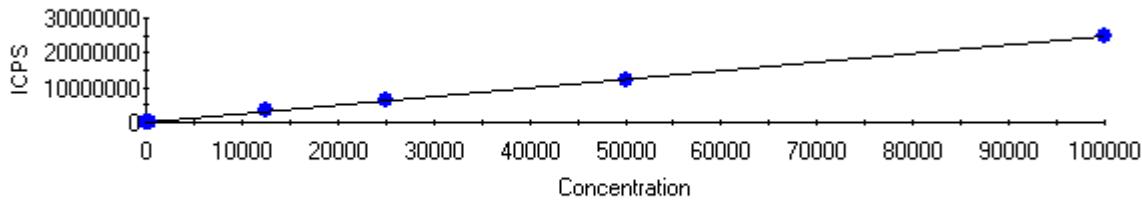
Intercept CPS=8.847945 Intercept Conc=1.521875  
Sensitivity=5.813845 Correlation Coeff=0.999899

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	8.85	0.00
S1 (S)	5.000	3.572	1.428	29.62	28.55
S2 (S)	125.000	129.531	4.531	761.92	3.62
S3 (S)	250.000	244.131	5.869	1428.19	2.35
S4 (S)	500.000	509.026	9.026	2968.25	1.81
S5 (S)	1000.000	996.395	3.605	5801.73	0.36

**23Na FQ Block 1**

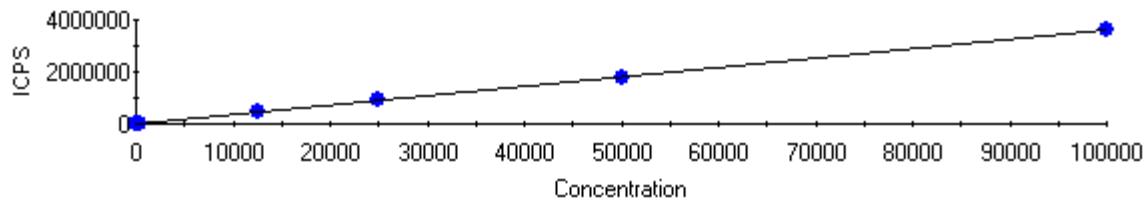
Intercept CPS=140265.350318 Intercept Conc=467.110348  
Sensitivity=300.283115 Correlation Coeff=0.999975

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	140265.35	0.00
S1 (S)	500.000	501.000	1.000	290707.06	0.20
S2 (S)	12500.000	12824.805	324.805	3991337.62	2.60
S3 (S)	25000.000	24891.203	108.797	7614673.17	0.44
S4 (S)	50000.000	49541.085	458.915	15016616.61	0.92
S5 (S)	100000.000	100216.051	216.051	30233453.41	0.22

**24Mg FQ Block 1**

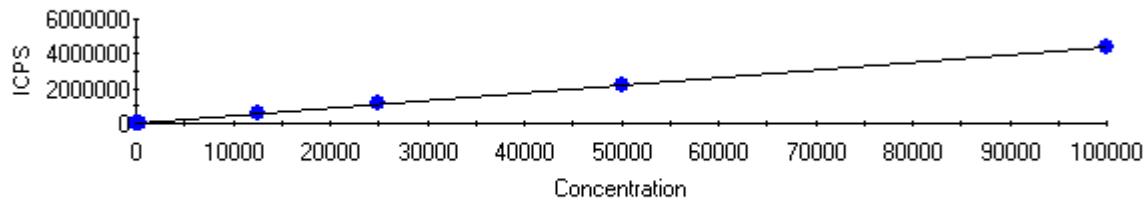
Intercept CPS=2488.822543 Intercept Conc=9.926423  
Sensitivity=250.727031 Correlation Coeff=0.999978

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	2488.82	0.00
S1 (S)	500.000	496.090	3.910	126872.06	0.78
S2 (S)	12500.000	12790.410	290.410	3209390.27	2.32
S3 (S)	25000.000	24650.381	349.619	6183005.73	1.40
S4 (S)	50000.000	48750.930	1249.070	12225664.84	2.50
S5 (S)	100000.000	98047.483	1952.517	24585643.21	1.95

**25Mg FQ Block 1**

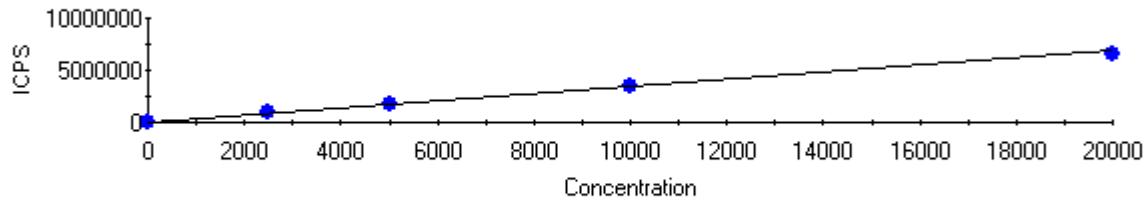
Intercept CPS=365.117749 Intercept Conc=10.135106  
Sensitivity=36.025053 Correlation Coeff=0.999981

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	365.12	0.00
S1 (S)	500.000	508.070	8.070	18668.38	1.61
S2 (S)	12500.000	12943.138	443.138	466642.36	3.55
S3 (S)	25000.000	25468.520	468.520	917869.90	1.87
S4 (S)	50000.000	49958.288	41.712	1800115.10	0.08
S5 (S)	100000.000	99848.293	151.707	3597405.18	0.15

**26Mg FQ Block 1**

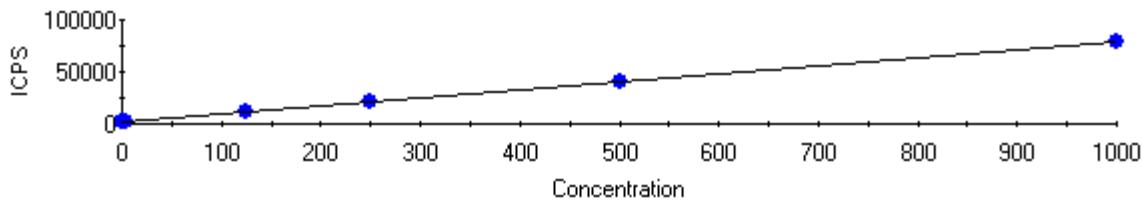
Intercept CPS=400.036130 Intercept Conc=9.093929  
Sensitivity=43.989360 Correlation Coeff=0.999902

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	400.04	0.00
S1 (S)	500.000	507.406	7.406	22720.51	1.48
S2 (S)	12500.000	13171.664	671.664	579813.09	5.37
S3 (S)	25000.000	25904.611	904.611	1139927.29	3.62
S4 (S)	50000.000	50713.421	713.421	2231250.95	1.43
S5 (S)	100000.000	99333.142	666.858	4370001.32	0.67

**27Al FQ Block 1**

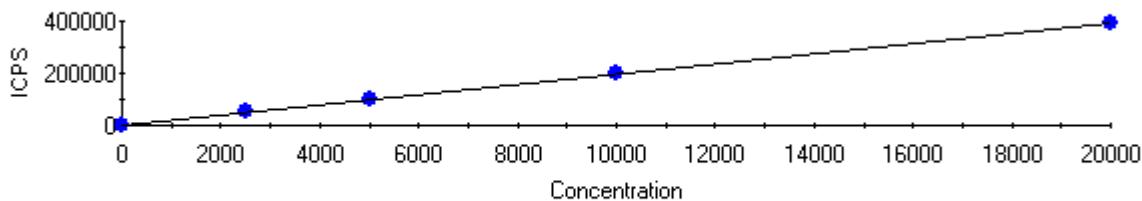
Intercept CPS=15880.548385 Intercept Conc=45.816105  
Sensitivity=346.614978 Correlation Coeff=0.999767

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	15880.55	0.00
S1 (S)	20.000	19.451	0.549	22622.49	2.75
S2 (S)	2500.000	2624.202	124.202	925468.25	4.97
S3 (S)	5000.000	5097.365	97.365	1782703.62	1.95
S4 (S)	10000.000	9817.222	182.778	3418676.57	1.83
S5 (S)	20000.000	19067.477	932.523	6624953.72	4.66

**28Si FQ Block 1**

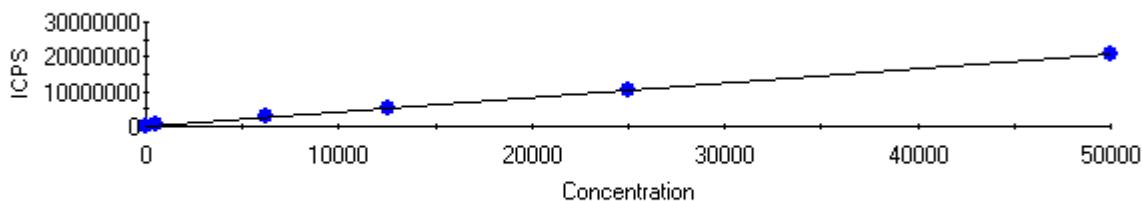
Intercept CPS=1242.844313 Intercept Conc=16.136471  
Sensitivity=77.020824 Correlation Coeff=0.999955

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	1242.84	0.00
S1 (S)	5.000	4.447	0.553	1585.39	11.05
S2 (S)	125.000	132.445	7.445	11443.84	5.96
S3 (S)	250.000	254.556	4.556	20848.98	1.82
S4 (S)	500.000	503.530	3.530	40025.11	0.71
S5 (S)	1000.000	996.168	3.832	77968.55	0.38

**31P FQ Block 1**

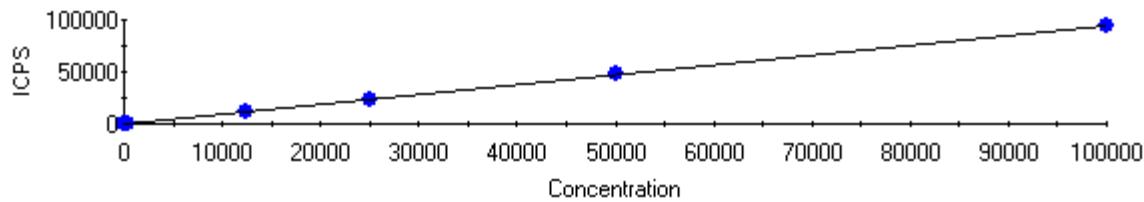
Intercept CPS=1138.537296 Intercept Conc=58.007993  
Sensitivity=19.627248 Correlation Coeff=0.999817

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	1138.54	0.00
S1 (S)	0.000	-3.879	3.879	1062.40	0.00
S2 (S)	2500.000	2601.409	101.409	52197.03	4.06
S3 (S)	5000.000	5151.313	151.313	102244.64	3.03
S4 (S)	10000.000	10269.886	269.886	202708.14	2.70
S5 (S)	20000.000	19814.553	185.447	390043.69	0.93

**39K FQ Block 1**

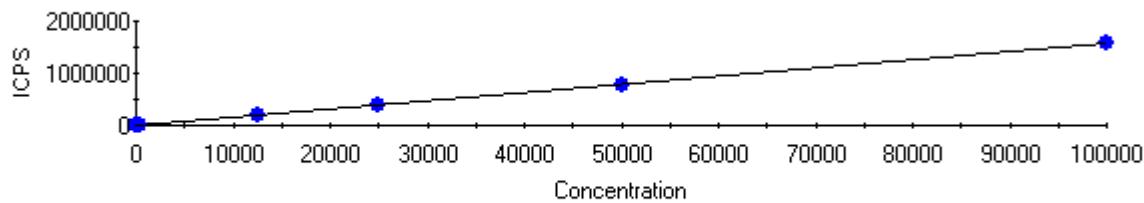
Intercept CPS=232855.307432 Intercept Conc=567.810949  
Sensitivity=410.093021 Correlation Coeff=0.999977

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	232855.31	0.00
S1 (S)	500.000	490.408	9.592	433968.23	1.92
S2 (S)	6250.000	6552.839	302.839	2920128.84	4.85
S3 (S)	12500.000	12606.709	106.709	5402778.54	0.85
S4 (S)	25000.000	25104.001	104.001	10527830.86	0.42
S5 (S)	50000.000	49883.563	116.437	20689756.55	0.23

**43Ca FQ Block 1**

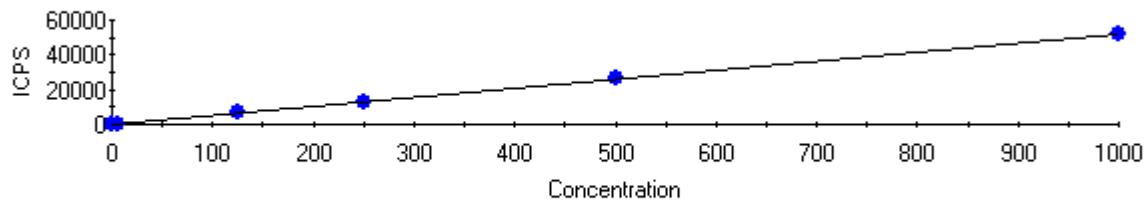
Intercept CPS=36.978405 Intercept Conc=39.101868  
Sensitivity=0.945694 Correlation Coeff=0.999988

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	36.98	0.00
S1 (S)	500.000	474.969	25.031	486.15	5.01
S2 (S)	12500.000	12949.705	449.705	12283.44	3.60
S3 (S)	25000.000	24943.872	56.128	23626.25	0.22
S4 (S)	50000.000	49996.570	3.430	47318.44	0.01
S5 (S)	100000.000	99959.659	40.341	94568.24	0.04

**44Ca FQ Block 1**

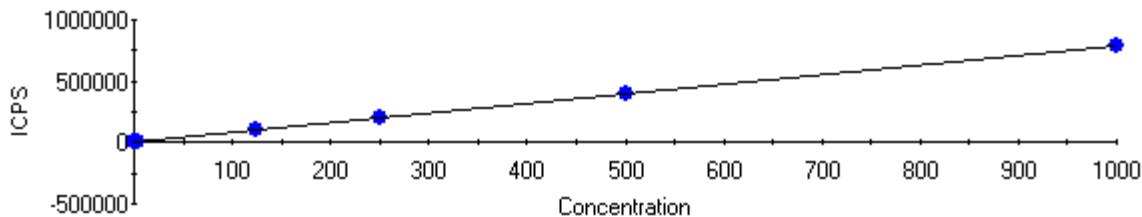
Intercept CPS=687.639512 Intercept Conc=43.957170  
Sensitivity=15.643398 Correlation Coeff=0.999993

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	687.64	0.00
S1 (S)	500.000	491.025	8.975	8368.94	1.79
S2 (S)	12500.000	12834.635	334.635	201464.94	2.68
S3 (S)	25000.000	25194.188	194.188	394810.36	0.78
S4 (S)	50000.000	50036.733	36.733	783432.18	0.07
S5 (S)	100000.000	99891.302	108.698	1563327.06	0.11

**47Ti FQ Block 1**

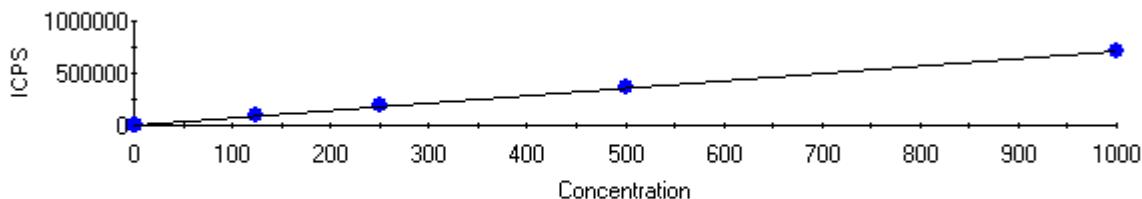
Intercept CPS=49.507653 Intercept Conc=0.949498  
Sensitivity=52.140896 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	49.51	0.00
S1 (S)	5.000	4.733	0.267	296.26	5.35
S2 (S)	125.000	127.819	2.819	6714.09	2.25
S3 (S)	250.000	249.568	0.432	13062.21	0.17
S4 (S)	500.000	499.102	0.898	26073.15	0.18
S5 (S)	1000.000	1000.206	0.206	52201.13	0.02

**51V FQ Block 1**

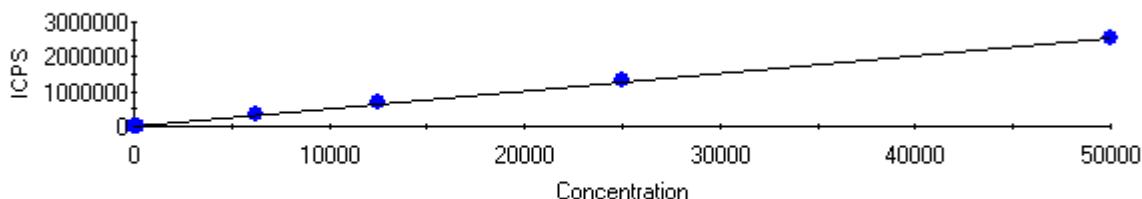
Intercept CPS=126.359049 Intercept Conc=0.161258  
Sensitivity=783.581293 Correlation Coeff=0.999973

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	126.36	0.00
S1 (S)	5.000	4.415	0.585	3586.24	11.69
S2 (S)	125.000	127.781	2.781	100253.38	2.23
S3 (S)	250.000	253.801	3.801	198999.88	1.52
S4 (S)	500.000	504.370	4.370	395341.50	0.87
S5 (S)	1000.000	996.520	3.480	780980.73	0.35

**52Cr FQ Block 1**

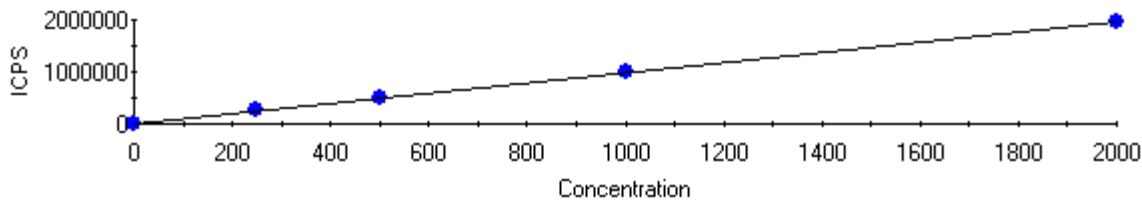
Intercept CPS=720.268262 Intercept Conc=1.004669  
Sensitivity=716.921023 Correlation Coeff=0.999928

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	720.27	0.00
S1 (S)	2.000	2.012	0.012	2163.06	0.62
S2 (S)	125.000	129.620	4.620	93647.82	3.70
S3 (S)	250.000	255.509	5.509	183900.19	2.20
S4 (S)	500.000	507.966	7.966	364892.01	1.59
S5 (S)	1000.000	994.062	5.938	713384.19	0.59

**54Fe FQ Block 1**

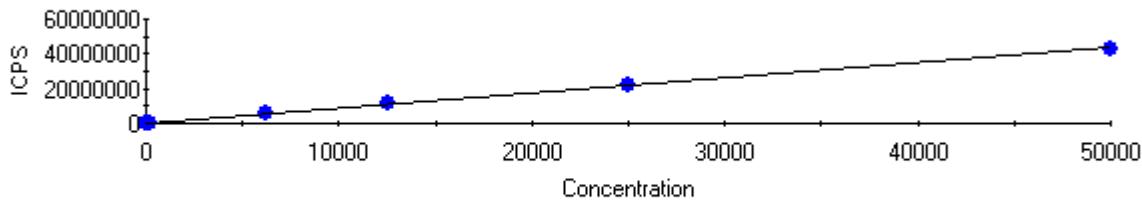
Intercept CPS=5616.623568 Intercept Conc=110.069512  
Sensitivity=51.027968 Correlation Coeff=0.999656

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	5616.62	0.00
S1 (S)	200.000	195.006	4.994	15567.37	2.50
S2 (S)	6250.000	6610.331	360.331	342928.39	5.77
S3 (S)	12500.000	13090.876	590.876	673617.42	4.73
S4 (S)	25000.000	25888.781	888.781	1326668.51	3.56
S5 (S)	50000.000	49362.869	637.131	2524503.56	1.27

**55Mn FQ Block 1**

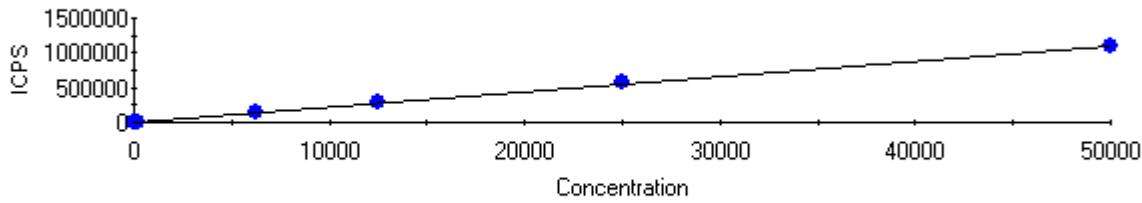
Intercept CPS=410.504366 Intercept Conc=0.415256  
Sensitivity=988.556681 Correlation Coeff=0.999963

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	410.50	0.00
S1 (S)	1.000	1.043	0.043	1442.05	4.35
S2 (S)	250.000	258.574	8.574	256025.77	3.43
S3 (S)	500.000	509.600	9.600	504179.06	1.92
S4 (S)	1000.000	1009.823	9.823	998677.28	0.98
S5 (S)	2000.000	1991.617	8.383	1969236.73	0.42

**56Fe FQ Block 1**

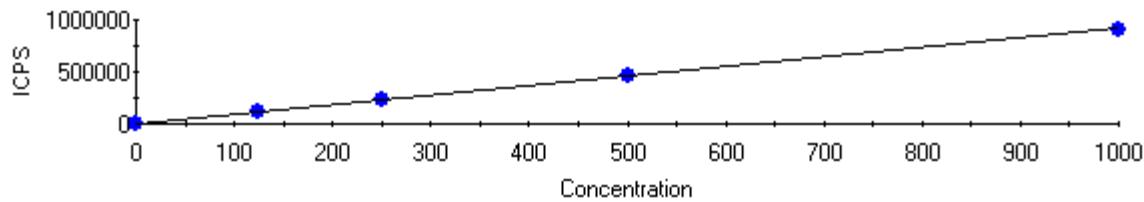
Intercept CPS=89736.485443 Intercept Conc=103.827300  
Sensitivity=864.286038 Correlation Coeff=0.999942

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	89736.49	0.00
S1 (S)	200.000	200.907	0.907	263377.46	0.45
S2 (S)	6250.000	6519.431	269.431	5724389.97	4.31
S3 (S)	12500.000	12801.074	301.074	11153526.25	2.41
S4 (S)	25000.000	25305.385	305.385	21960827.54	1.22
S5 (S)	50000.000	49738.356	261.644	43077903.43	0.52

**57Fe FQ Block 1**

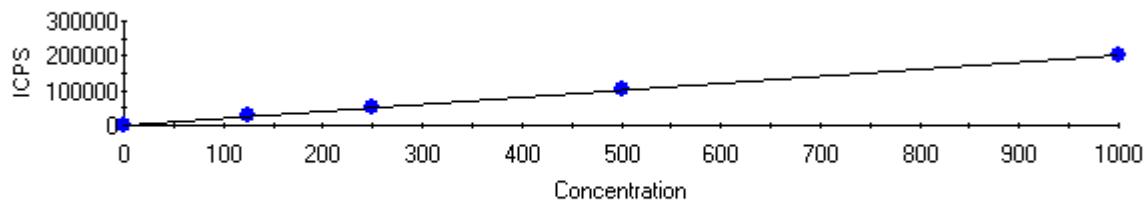
Intercept CPS=3153.711396 Intercept Conc=142.670892  
Sensitivity=22.104799 Correlation Coeff=0.999939

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	3153.71	0.00
S1 (S)	200.000	192.948	7.052	7418.80	3.53
S2 (S)	6250.000	6437.406	187.406	145451.27	3.00
S3 (S)	12500.000	12760.049	260.049	285212.02	2.08
S4 (S)	25000.000	25365.668	365.668	563856.69	1.46
S5 (S)	50000.000	49728.757	271.243	1102397.88	0.54

**59Co FQ Block 1**

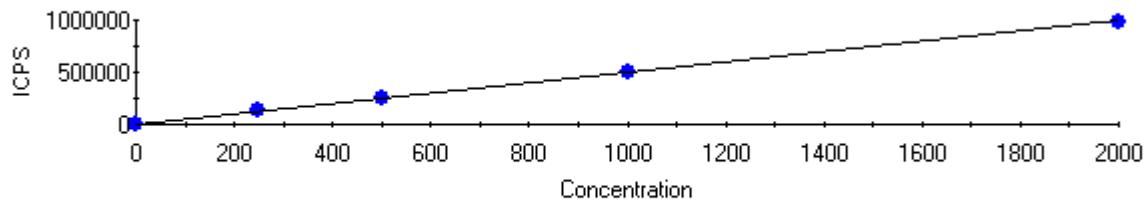
Intercept CPS=81.239103 Intercept Conc=0.088654  
 Sensitivity=916.365727 Correlation Coeff=0.999906

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	81.24	0.00
S1 (S)	1.000	0.979	0.021	978.17	2.12
S2 (S)	125.000	130.038	5.038	119243.38	4.03
S3 (S)	250.000	256.191	6.191	234845.83	2.48
S4 (S)	500.000	509.180	9.180	466675.96	1.84
S5 (S)	1000.000	993.233	6.767	910245.72	0.68

**60Ni FQ Block 1**

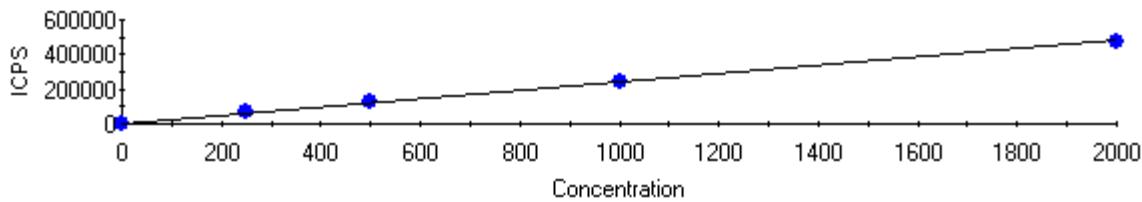
Intercept CPS=68.229148 Intercept Conc=0.336253  
 Sensitivity=202.910293 Correlation Coeff=0.999848

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	68.23	0.00
S1 (S)	1.000	1.009	0.009	273.07	0.95
S2 (S)	125.000	133.403	8.403	27137.00	6.72
S3 (S)	250.000	257.797	7.797	52377.92	3.12
S4 (S)	500.000	511.055	11.055	103766.56	2.21
S5 (S)	1000.000	991.473	8.527	201248.28	0.85

**63Cu FQ Block 1**

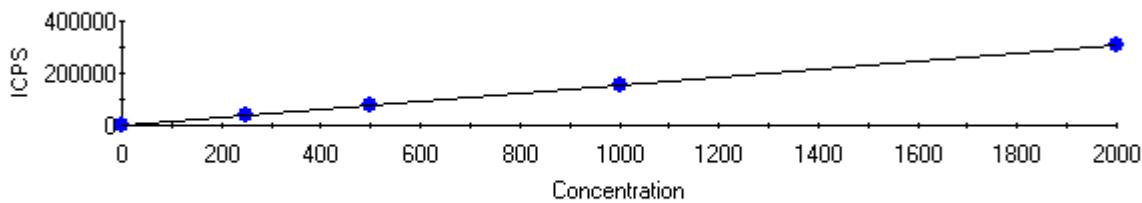
Intercept CPS=150.067165 Intercept Conc=0.301043  
 Sensitivity=498.490891 Correlation Coeff=0.999849

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	150.07	0.00
S1 (S)	2.000	2.082	0.082	1187.75	4.08
S2 (S)	250.000	263.776	13.776	131640.22	5.51
S3 (S)	500.000	517.752	17.752	258244.65	3.55
S4 (S)	1000.000	1021.898	21.898	509556.90	2.19
S5 (S)	2000.000	1982.891	17.109	988603.12	0.86

**65Cu FQ Block 1**

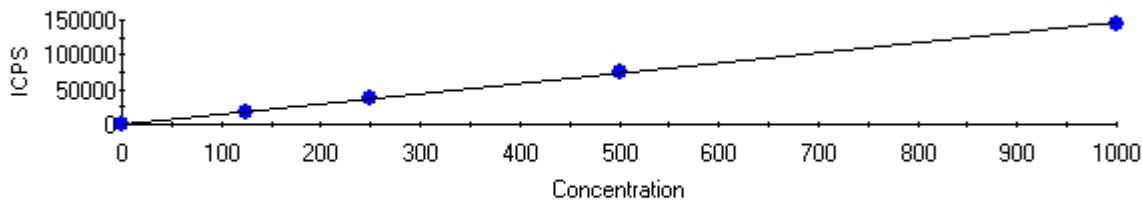
Intercept CPS=85.429867 Intercept Conc=0.354092  
 Sensitivity=241.264807 Correlation Coeff=0.999854

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	85.43	0.00
S1 (S)	2.000	2.163	0.163	607.23	8.14
S2 (S)	250.000	265.375	15.375	64111.19	6.15
S3 (S)	500.000	519.401	19.401	125398.59	3.88
S4 (S)	1000.000	1019.842	19.842	246137.41	1.98
S5 (S)	2000.000	1983.307	16.693	478587.54	0.83

**66Zn FQ Block 1**

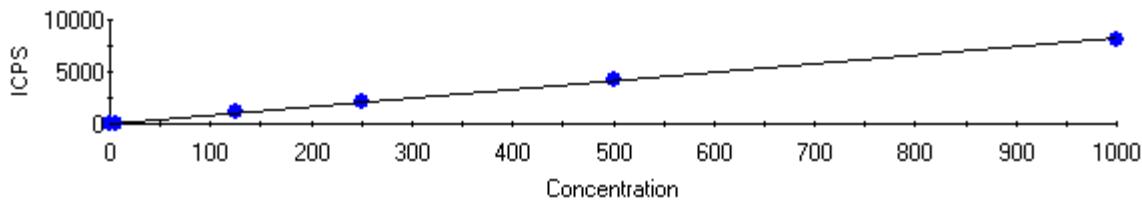
Intercept CPS=132.862986 Intercept Conc=0.856436  
 Sensitivity=155.134708 Correlation Coeff=0.999937

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	132.86	0.00
S1 (S)	2.000	1.865	0.135	422.12	6.77
S2 (S)	250.000	258.735	8.735	40271.69	3.49
S3 (S)	500.000	513.731	13.731	79830.39	2.75
S4 (S)	1000.000	1012.715	12.715	157240.15	1.27
S5 (S)	2000.000	1989.118	10.882	308714.07	0.54

**75As FQ Block 1**

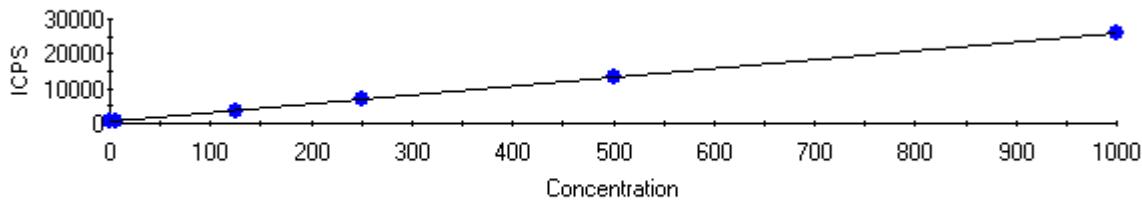
Intercept CPS=29.386127 Intercept Conc=0.201424  
 Sensitivity=145.892018 Correlation Coeff=0.999984

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	29.39	0.00
S1 (S)	1.000	0.805	0.195	146.85	19.48
S2 (S)	125.000	126.367	1.367	18465.39	1.09
S3 (S)	250.000	252.040	2.040	36800.02	0.82
S4 (S)	500.000	504.130	4.130	73577.93	0.83
S5 (S)	1000.000	997.254	2.746	145520.82	0.27

**77Se FQ Block 1**

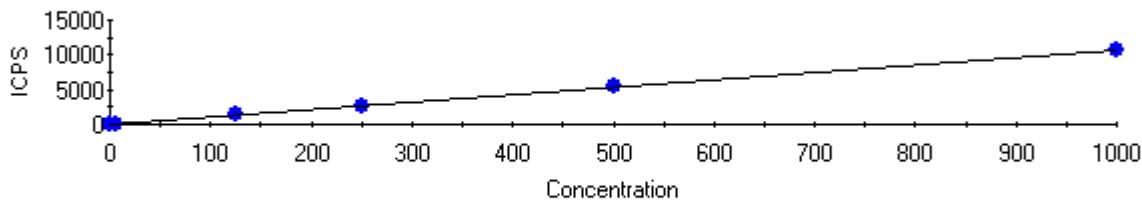
Intercept CPS=7.932665 Intercept Conc=0.967720  
 Sensitivity=8.197274 Correlation Coeff=0.999931

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	7.93	0.00
S1 (S)	5.000	4.102	0.898	41.56	17.96
S2 (S)	125.000	128.919	3.919	1064.71	3.13
S3 (S)	250.000	251.240	1.240	2067.41	0.50
S4 (S)	500.000	508.719	8.719	4178.04	1.74
S5 (S)	1000.000	994.845	5.155	8162.95	0.52

**78Se FQ Block 1**

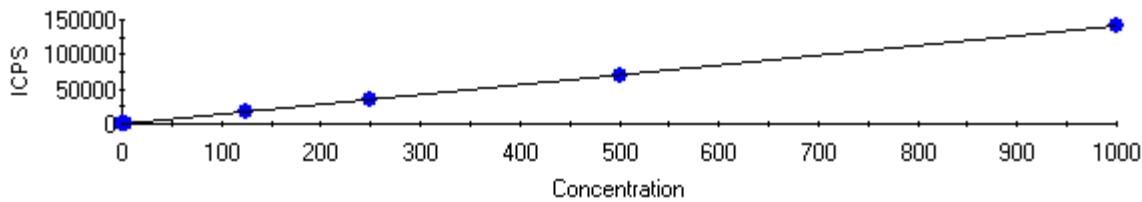
Intercept CPS=339.047121 Intercept Conc=13.225602  
 Sensitivity=25.635667 Correlation Coeff=0.999987

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	339.05	0.00
S1 (S)	5.000	4.404	0.596	451.94	11.93
S2 (S)	125.000	126.676	1.676	3586.47	1.34
S3 (S)	250.000	252.983	2.983	6824.43	1.19
S4 (S)	500.000	502.835	2.835	13229.57	0.57
S5 (S)	1000.000	997.630	2.370	25913.96	0.24

**82Se FQ Block 1**

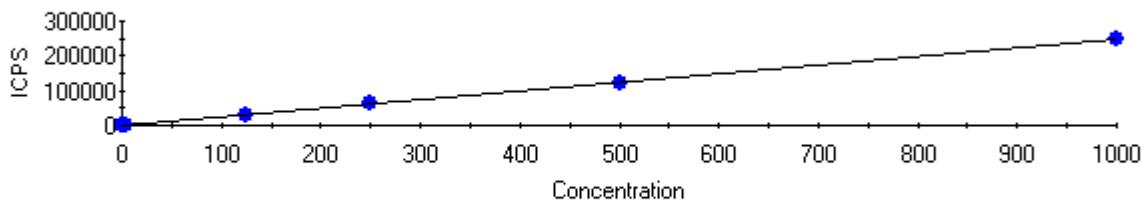
Intercept CPS=10.301043 Intercept Conc=0.966044  
 Sensitivity=10.663123 Correlation Coeff=0.999932

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	10.30	0.00
S1 (S)	5.000	4.095	0.905	53.96	18.10
S2 (S)	125.000	128.719	3.719	1382.84	2.97
S3 (S)	250.000	251.024	1.024	2687.00	0.41
S4 (S)	500.000	508.667	8.667	5434.28	1.73
S5 (S)	1000.000	994.950	5.050	10619.58	0.50

**94Mo FQ Block 1**

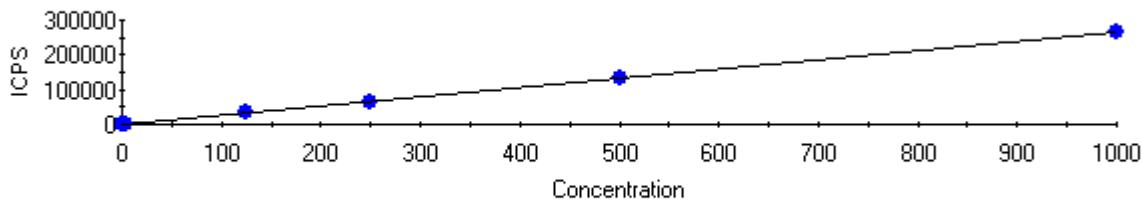
Intercept CPS=31.778920 Intercept Conc=0.225620  
Sensitivity=140.851675 Correlation Coeff=0.999983

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	31.78	0.00
S1 (S)	5.000	4.495	0.505	664.90	10.10
S2 (S)	125.000	124.773	0.227	17606.28	0.18
S3 (S)	250.000	248.240	1.760	34996.75	0.70
S4 (S)	500.000	495.496	4.504	69823.17	0.90
S5 (S)	1000.000	1002.723	2.723	141267.01	0.27

**95Mo FQ Block 1**

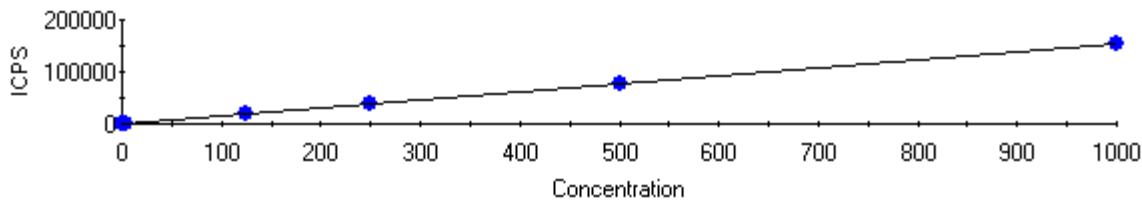
Intercept CPS=49.469613 Intercept Conc=0.200289  
Sensitivity=246.990726 Correlation Coeff=0.999968

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	49.47	0.00
S1 (S)	5.000	4.609	0.391	1187.89	7.82
S2 (S)	125.000	123.240	1.760	30488.55	1.41
S3 (S)	250.000	247.326	2.674	61136.68	1.07
S4 (S)	500.000	493.930	6.070	122045.67	1.21
S5 (S)	1000.000	1003.925	3.925	248009.72	0.39

**96Mo FQ Block 1**

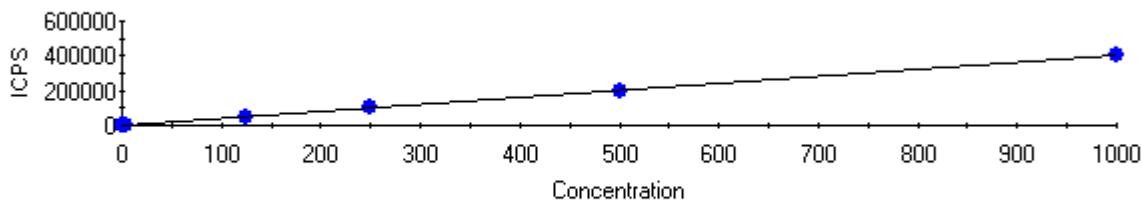
Intercept CPS=51.539040 Intercept Conc=0.194403  
Sensitivity=265.115046 Correlation Coeff=0.999974

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	51.54	0.00
S1 (S)	5.000	4.371	0.629	1210.37	12.58
S2 (S)	125.000	123.746	1.254	32858.57	1.00
S3 (S)	250.000	248.125	1.875	65833.24	0.75
S4 (S)	500.000	494.343	5.657	131109.40	1.13
S5 (S)	1000.000	1003.457	3.457	266083.06	0.35

**97Mo FQ Block 1**

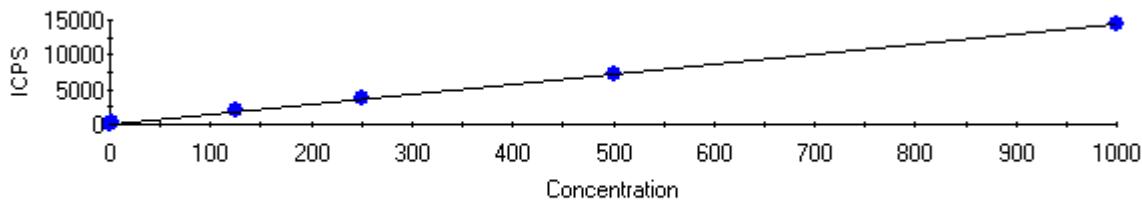
Intercept CPS=30.716773 Intercept Conc=0.198885  
Sensitivity=154.444975 Correlation Coeff=0.999977

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	30.72	0.00
S1 (S)	5.000	4.731	0.269	761.39	5.38
S2 (S)	125.000	124.429	0.571	19248.22	0.46
S3 (S)	250.000	246.681	3.319	38129.43	1.33
S4 (S)	500.000	495.415	4.585	76545.09	0.92
S5 (S)	1000.000	1003.195	3.195	154969.10	0.32

**98Mo FQ Block 1**

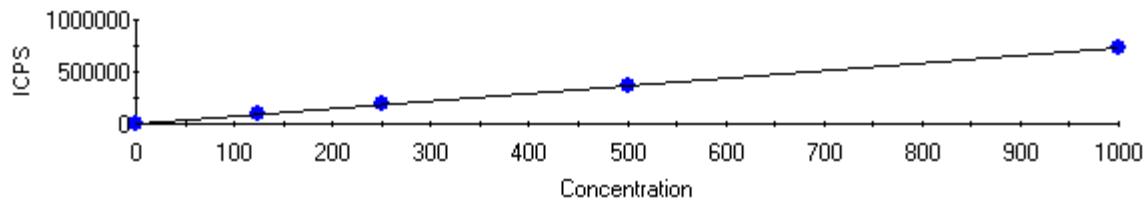
Intercept CPS=82.251162 Intercept Conc=0.205261  
Sensitivity=400.714273 Correlation Coeff=0.999986

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	82.25	0.00
S1 (S)	5.000	4.544	0.456	1903.06	9.12
S2 (S)	125.000	124.375	0.625	49921.15	0.50
S3 (S)	250.000	248.614	1.386	99705.41	0.55
S4 (S)	500.000	495.811	4.189	198760.65	0.84
S5 (S)	1000.000	1002.522	2.522	401806.96	0.25

**106Cd FQ Block 1**

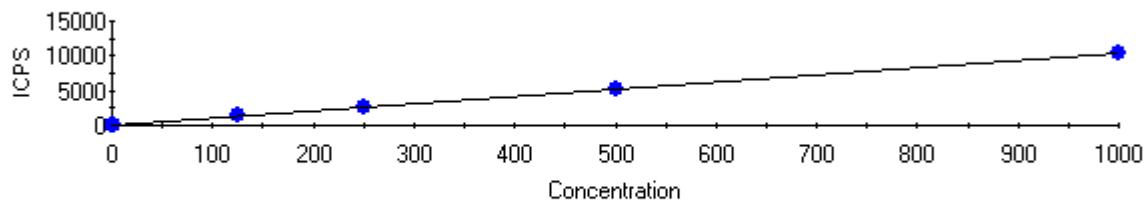
Intercept CPS=134.920358 Intercept Conc=9.490837  
Sensitivity=14.215854 Correlation Coeff=0.999945

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	134.92	0.00
S1 (S)	1.000	1.678	0.678	158.77	67.79
S2 (S)	125.000	127.382	2.382	1945.77	1.91
S3 (S)	250.000	251.901	1.901	3715.91	0.76
S4 (S)	500.000	492.114	7.886	7130.74	1.58
S5 (S)	1000.000	1003.169	3.169	14395.83	0.32

**107Ag FQ Block 1**

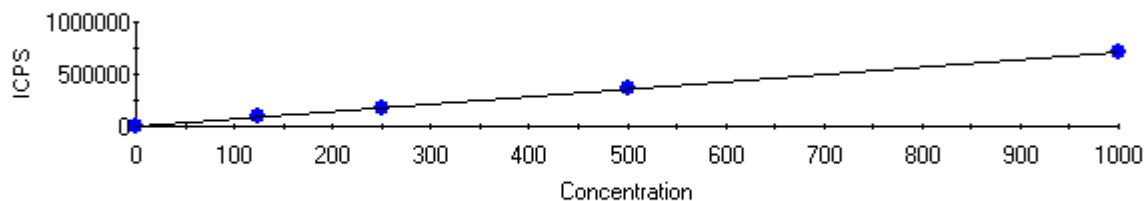
Intercept CPS=40.615619 Intercept Conc=0.055353  
Sensitivity=733.754118 Correlation Coeff=0.999994

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	40.62	0.00
S1 (S)	1.000	0.942	0.058	731.90	5.79
S2 (S)	125.000	127.255	2.255	93414.13	1.80
S3 (S)	250.000	252.740	2.740	185489.56	1.10
S4 (S)	500.000	499.431	0.569	366499.90	0.11
S5 (S)	1000.000	999.318	0.682	733294.28	0.07

**108Cd FQ Block 1**

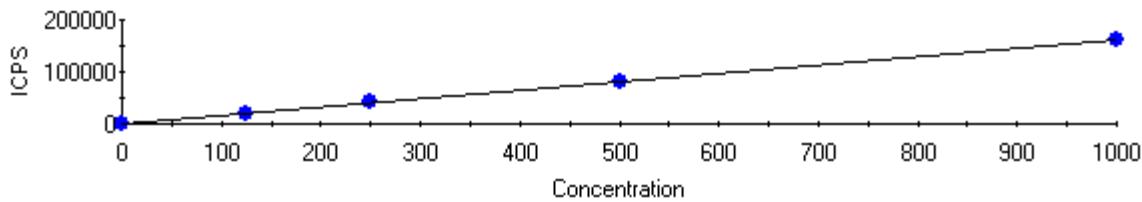
Intercept CPS=98.490695 Intercept Conc=9.512345  
Sensitivity=10.353986 Correlation Coeff=0.999948

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	98.49	0.00
S1 (S)	1.000	1.683	0.683	115.91	68.25
S2 (S)	125.000	127.515	2.515	1418.78	2.01
S3 (S)	250.000	252.173	2.173	2709.49	0.87
S4 (S)	500.000	492.437	7.563	5197.17	1.51
S5 (S)	1000.000	1002.923	2.923	10482.75	0.29

**109Ag FQ Block 1**

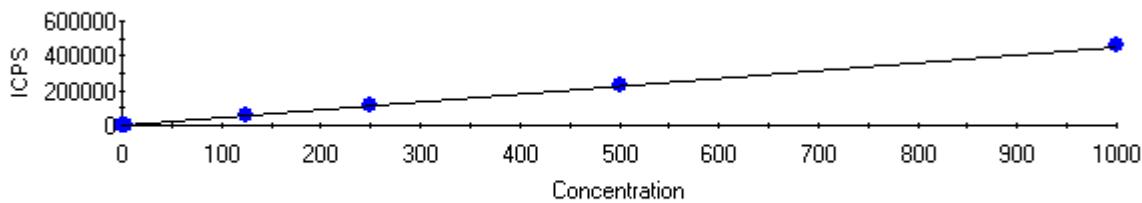
Intercept CPS=36.977410 Intercept Conc=0.052058  
Sensitivity=710.318000 Correlation Coeff=0.999989

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	36.98	0.00
S1 (S)	1.000	0.926	0.074	695.06	7.35
S2 (S)	125.000	127.397	2.397	90529.16	1.92
S3 (S)	250.000	253.784	3.784	180304.25	1.51
S4 (S)	500.000	501.429	1.429	356210.80	0.29
S5 (S)	1000.000	998.040	1.960	708962.87	0.20

**111Cd FQ Block 1**

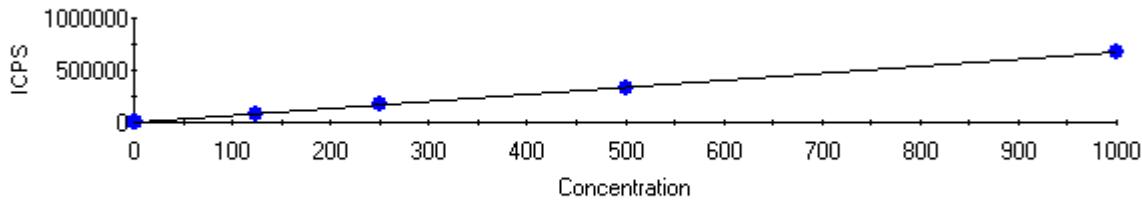
Intercept CPS=86.503203 Intercept Conc=0.532194  
 Sensitivity=162.540796 Correlation Coeff=0.999993

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	86.50	0.00
S1 (S)	1.000	0.971	0.029	244.29	2.92
S2 (S)	125.000	127.460	2.460	20803.88	1.97
S3 (S)	250.000	251.051	1.051	40892.50	0.42
S4 (S)	500.000	498.097	1.903	81047.66	0.38
S5 (S)	1000.000	1000.381	0.381	162689.25	0.04

**118Sn FQ Block 1**

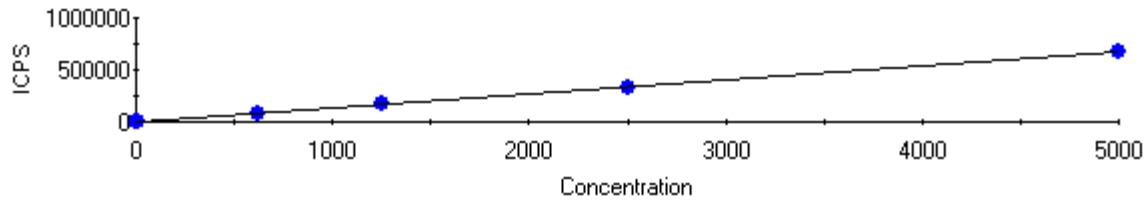
Intercept CPS=58.343610 Intercept Conc=0.128241  
 Sensitivity=454.952607 Correlation Coeff=0.999979

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	58.34	0.00
S1 (S)	5.000	4.598	0.402	2150.41	8.03
S2 (S)	125.000	123.403	1.597	56200.89	1.28
S3 (S)	250.000	248.523	1.477	113124.35	0.59
S4 (S)	500.000	494.981	5.019	225251.31	1.00
S5 (S)	1000.000	1003.080	3.080	456412.38	0.31

**121Sb FQ Block 1**

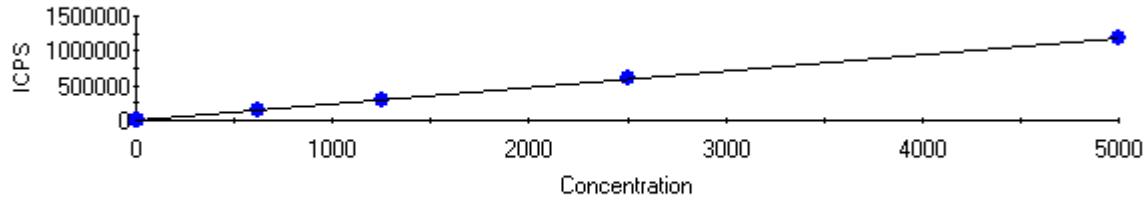
Intercept CPS=305.759191 Intercept Conc=0.456666  
 Sensitivity=669.546018 Correlation Coeff=0.999980

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	305.76	0.00
S1 (S)	2.000	1.767	0.233	1489.10	11.63
S2 (S)	125.000	123.562	1.438	83036.23	1.15
S3 (S)	250.000	247.227	2.773	165835.57	1.11
S4 (S)	500.000	495.527	4.473	332084.16	0.89
S5 (S)	1000.000	1003.110	3.110	671933.91	0.31

**135Ba FQ Block 1**

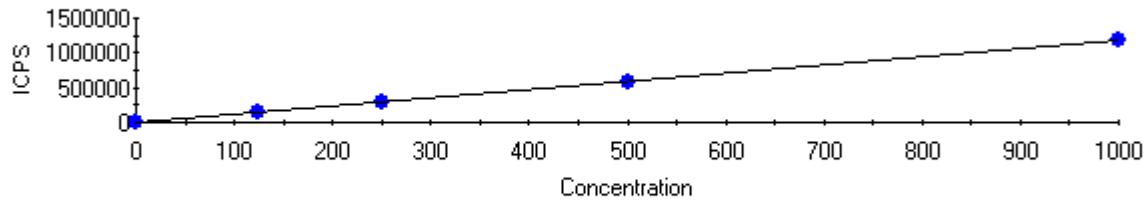
Intercept CPS=36.482954 Intercept Conc=0.273667  
 Sensitivity=133.311521 Correlation Coeff=0.999999

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	36.48	0.00
S1 (S)	10.000	9.773	0.227	1339.32	2.27
S2 (S)	625.000	630.643	5.643	84108.45	0.90
S3 (S)	1250.000	1254.026	4.026	167212.58	0.32
S4 (S)	2500.000	2501.264	1.264	333483.78	0.05
S5 (S)	5000.000	4997.657	2.343	666281.70	0.05

**137Ba FQ Block 1**

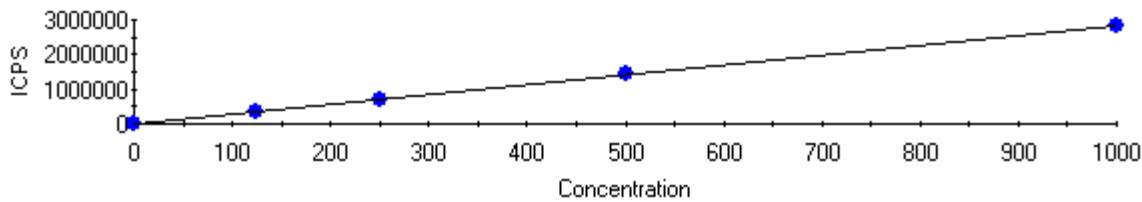
Intercept CPS=77.614620 Intercept Conc=0.328700  
 Sensitivity=236.126075 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	77.61	0.00
S1 (S)	10.000	9.534	0.466	2328.88	4.66
S2 (S)	625.000	630.852	5.852	149038.10	0.94
S3 (S)	1250.000	1260.415	10.415	297694.48	0.83
S4 (S)	2500.000	2504.089	4.089	591358.36	0.16
S5 (S)	5000.000	4994.621	5.379	1179437.91	0.11

**203TI FQ Block 1**

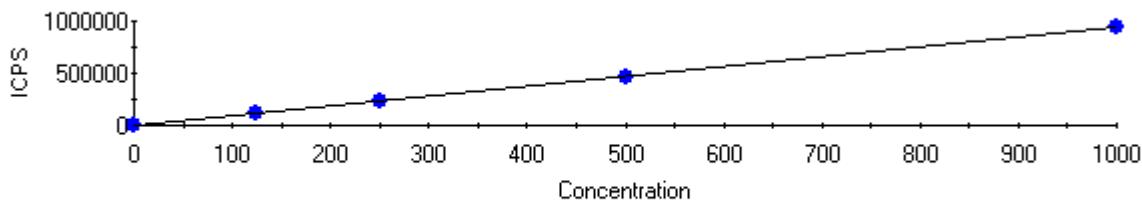
Intercept CPS=113.027864 Intercept Conc=0.096622  
 Sensitivity=1169.793681 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	113.03	0.00
S1 (S)	1.000	0.991	0.009	1272.17	0.91
S2 (S)	125.000	126.558	1.558	148159.79	1.25
S3 (S)	250.000	250.914	0.914	293630.50	0.37
S4 (S)	500.000	499.858	0.142	584843.44	0.03
S5 (S)	1000.000	999.648	0.352	1169494.85	0.04

**205TI FQ Block 1**

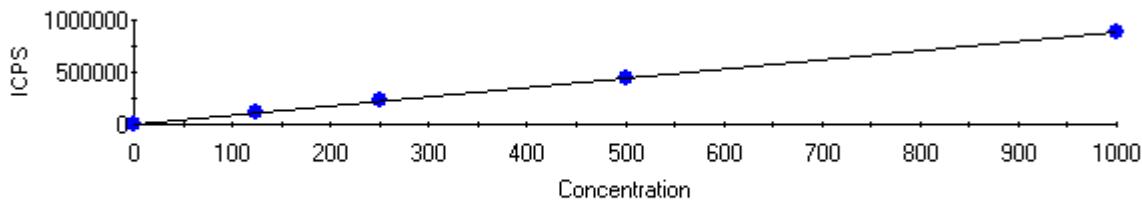
Intercept CPS=289.608432 Intercept Conc=0.102048  
 Sensitivity=2837.963430 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	289.61	0.00
S1 (S)	1.000	0.953	0.047	2993.33	4.73
S2 (S)	125.000	126.787	1.787	360106.23	1.43
S3 (S)	250.000	251.291	1.291	713444.87	0.52
S4 (S)	500.000	500.469	0.469	1420601.28	0.09
S5 (S)	1000.000	999.220	0.780	2836038.20	0.08

**206Pb FQ Block 1**

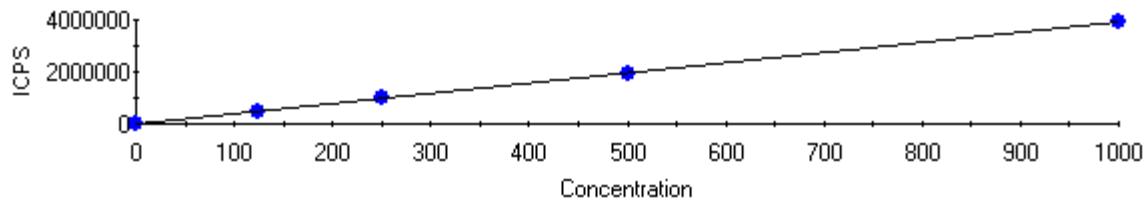
Intercept CPS=166.063818 Intercept Conc=0.176950  
 Sensitivity=938.478611 Correlation Coeff=0.999998

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	166.06	0.00
S1 (S)	1.000	1.009	0.009	1113.03	0.90
S2 (S)	125.000	126.694	1.694	119065.69	1.36
S3 (S)	250.000	250.173	0.173	234948.45	0.07
S4 (S)	500.000	499.203	0.797	468657.77	0.16
S5 (S)	1000.000	1000.143	0.143	938779.06	0.01

**207Pb FQ Block 1**

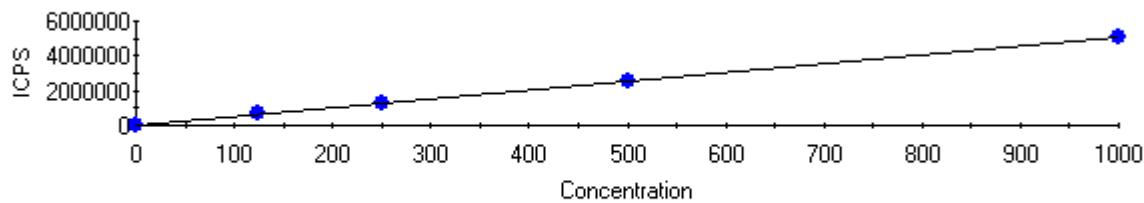
Intercept CPS=139.623656 Intercept Conc=0.158528  
 Sensitivity=880.749242 Correlation Coeff=0.999996

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	139.62	0.00
S1 (S)	1.000	0.980	0.020	1003.04	1.97
S2 (S)	125.000	127.227	2.227	112194.94	1.78
S3 (S)	250.000	251.418	1.418	221576.16	0.57
S4 (S)	500.000	500.898	0.898	441304.96	0.18
S5 (S)	1000.000	998.918	1.082	879936.01	0.11

**208Pb FQ Block 1**

Intercept CPS=648.505881 Intercept Conc=0.165616  
 Sensitivity=3915.719608 Correlation Coeff=0.999997

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	-0.000	0.000	648.51	0.00
S1 (S)	1.000	0.971	0.029	4448.73	2.95
S2 (S)	125.000	126.968	1.968	497818.39	1.57
S3 (S)	250.000	251.190	1.190	984238.52	0.48
S4 (S)	500.000	500.465	0.465	1960328.47	0.09
S5 (S)	1000.000	999.224	0.776	3913330.00	0.08

**238U FQ Block 1**

Intercept CPS=220.440624 Intercept Conc=0.043219  
 Sensitivity=5100.549422 Correlation Coeff=0.999913

Label	Defined	Measured	Error	Mean CPS	% Error
S0 (S0)	0.000	0.000	0.000	220.44	0.00
S1 (S)	1.000	0.918	0.082	4901.89	8.22
S2 (S)	125.000	124.495	0.505	635214.09	0.40
S3 (S)	250.000	244.950	5.050	1249599.22	2.02
S4 (S)	500.000	490.434	9.566	2501701.06	1.91
S5 (S)	1000.000	1006.109	6.109	5131928.85	0.61

## Dilution Corrected Concentrations

SO (SO) 11/17/2011 12:23:20 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:28	101%	-0.020	0.350	0.000	1.916	0.460	0.275	0.500	-0.288
2	00:25:36	100%	-0.004	0.093	0.000	-1.402	0.380	-0.113	1.103	0.435
3	00:26:44	100%	0.025	-0.443	0.000	-0.513	-0.840	-0.163	-1.604	-0.147
x		100%	0.000	0.000	0.000	-0.000	-0.000	-0.000	0.000	0.000
$\sigma$		1%	0.023	0.405	0.000	1.717	0.729	0.240	1.421	0.383
%RSD		1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:28	1.613	-2.805	0.000	0.000	2.034	4.114	1.879	99%	0.257
2	00:25:36	-1.121	-0.132	0.000	0.000	-0.026	-11.040	0.256	100%	-0.291
3	00:26:44	-0.492	2.936	0.000	0.000	-2.008	6.921	-2.134	101%	0.034
x		0.000	-0.000	0.000	0.000	0.000	0.000	-0.000	100%	0.000
$\sigma$		1.432	2.873	0.000	0.000	2.021	9.659	2.019	1%	0.275
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	0.000
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:28	0.113	-0.049	0.016	-1.332	0.026	0.670	4.965	-0.006	-0.012
2	00:25:36	0.113	0.050	-0.368	2.808	-0.003	1.079	-3.539	0.003	0.018
3	00:26:44	-0.225	-0.001	0.352	-1.475	-0.024	-1.749	-1.426	0.003	-0.007
x		0.000	0.000	0.000	-0.000	-0.000	0.000	-0.000	-0.000	0.000
$\sigma$		0.195	0.050	0.360	2.433	0.025	1.528	4.427	0.006	0.016
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:28	0.051	0.016	0.123	-0.037	0.195	0.011	-0.823	0.194	2.741
2	00:25:36	0.003	0.009	0.031	0.043	0.314	-0.015	-0.059	0.314	-0.644
3	00:26:44	-0.054	-0.025	-0.154	-0.006	-0.509	0.004	0.882	-0.508	-2.097
x		0.000	-0.000	-0.000	-0.000	-0.000	0.000	0.000	-0.000	0.000
$\sigma$		0.053	0.022	0.141	0.040	0.445	0.013	0.854	0.444	2.483
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:28	0.018	0.065	0.053	0.084	0.059	-0.003	100%	-0.836	0.008
2	00:25:36	0.053	-0.004	-0.047	-0.016	-0.045	0.001	100%	0.656	-0.004
3	00:26:44	-0.070	-0.061	-0.006	-0.067	-0.014	0.001	100%	0.180	-0.004
x		-0.000	-0.000	0.000	-0.000	0.000	0.000	100%	0.000	0.000
$\sigma$		0.063	0.063	0.050	0.077	0.053	0.002	0%	0.762	0.007
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0	0.000	0.000
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:24:28	0.393	-0.835	0.012	-0.038	0.023	0.149	0.137	0.095	100%
2	00:25:36	-0.360	0.657	0.005	0.053	0.016	0.004	-0.004	-0.064	100%
3	00:26:44	-0.033	0.179	-0.017	-0.015	-0.039	-0.154	-0.133	-0.032	101%
x		-0.000	0.000	-0.000	0.000	0.000	0.000	-0.000	-0.000	100%
$\sigma$		0.378	0.762	0.015	0.048	0.034	0.152	0.135	0.084	1%
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	00:24:28	100%	-0.001	0.001	-0.035	0.018	0.006	99%	0.009	
2	00:25:36	100%	0.023	0.009	0.021	-0.013	-0.000	100%	0.001	
3	00:26:44	100%	-0.022	-0.010	0.014	-0.005	-0.005	100%	-0.009	
x		100%	0.000	-0.000	-0.000	-0.000	-0.000	100%	0.000	
$\sigma$		0%	0.023	0.010	0.030	0.016	0.006	0%	0.009	
%RSD		0	0.000	0.000	0.000	0.000	0.000	0	0.000	

S1 (S) 11/17/2011 12:31:12 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	98%	0.952	2.865	0.000	497.700	497.900	501.500	508.100	18.980
2	00:33:27	97%	1.289	4.254	0.000	512.300	499.700	513.300	511.000	20.080
3	00:34:36	99%	1.242	3.598	0.000	492.900	490.600	509.400	503.100	19.300
x		98%	1.161	3.572	0.000	501.000	496.100	508.100	507.400	19.450
$\sigma$		1%	0.182	0.695	0.000	10.100	4.810	6.019	4.034	0.564
%RSD		1	15.690	19.460	0.000	2.017	0.970	1.185	0.795	2.897
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	4.113	-1.242	0.000	0.000	483.300	479.800	490.000	101%	4.712
2	00:33:27	5.580	-3.182	0.000	0.000	499.000	437.700	485.900	101%	4.883
3	00:34:36	3.649	-7.214	0.000	0.000	488.900	507.400	497.200	102%	4.602
x		4.447	-3.879	0.000	0.000	490.400	475.000	491.000	101%	4.733
$\sigma$		1.008	3.047	0.000	0.000	7.940	35.110	5.722	1%	0.142
%RSD		22.670	78.540	0.000	0.000	1.619	7.393	1.165	1	2.992
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	4.400	2.137	0.246	197.500	1.036	201.100	191.100	0.990	0.929
2	00:33:27	4.451	1.926	0.083	192.400	1.088	201.800	191.600	1.029	1.145
3	00:34:36	4.396	1.974	0.096	195.100	1.006	199.800	196.100	0.918	0.955
x		4.415	2.012	0.142	195.000	1.043	200.900	192.900	0.979	1.009
$\sigma$		0.031	0.111	0.091	2.513	0.042	0.989	2.772	0.056	0.118
%RSD		0.696	5.492	63.870	1.289	4.002	0.492	1.437	5.745	11.670
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	2.134	2.108	2.015	0.506	3.611	0.071	5.025	3.606	-1.595
2	00:33:27	2.084	2.296	1.827	0.890	4.232	0.014	3.571	4.221	0.910
3	00:34:36	2.026	2.085	1.752	1.019	4.464	-0.017	4.615	4.457	-0.838
x		2.082	2.163	1.865	0.805	4.102	0.023	4.404	4.095	-0.508
$\sigma$		0.054	0.116	0.136	0.267	0.441	0.044	0.750	0.439	1.285
%RSD		2.605	5.347	7.274	33.120	10.750	196.300	17.020	10.730	253.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	4.513	4.602	4.222	4.675	4.545	-0.003	101%	2.060	0.846
2	00:33:27	4.700	4.643	4.434	4.841	4.625	0.005	101%	2.321	0.969
3	00:34:36	4.272	4.582	4.457	4.678	4.461	-0.003	102%	0.653	1.011
x		4.495	4.609	4.371	4.731	4.544	-0.000	101%	1.678	0.942
$\sigma$		0.215	0.031	0.130	0.095	0.082	0.005	0%	0.897	0.086
%RSD		4.780	0.681	2.969	2.007	1.801	11070.000	0	53.480	9.096
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:32:20	-0.700	2.064	0.890	0.952	4.659	1.862	10.300	9.347	101%
2	00:33:27	-0.501	2.330	0.922	1.018	4.566	1.692	10.100	9.621	101%
3	00:34:36	0.077	0.654	0.967	0.943	4.571	1.749	8.923	9.634	102%
x		-0.375	1.683	0.926	0.971	4.598	1.767	9.773	9.534	101%
$\sigma$		0.404	0.901	0.039	0.041	0.053	0.086	0.743	0.162	1%
%RSD		107.700	53.540	4.184	4.239	1.144	4.885	7.602	1.698	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	00:32:20	101%	0.975	0.955	0.976	1.011	0.997	101%	0.933	
2	00:33:27	101%	0.966	0.941	1.002	1.020	0.985	102%	0.895	
3	00:34:36	101%	1.031	0.962	1.048	0.911	0.929	103%	0.925	
x		101%	0.991	0.953	1.009	0.980	0.971	102%	0.918	
$\sigma$		0%	0.035	0.011	0.036	0.061	0.036	1%	0.020	
%RSD		0	3.577	1.114	3.600	6.178	3.744	1	2.159	

S2 (S) 11/17/2011 01:18:25 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:19:33	101%	124.900	133.000	0.000	12740.000	12780.000	12930.000	13150.000	2642.000
2	01:20:41	99%	130.600	126.500	0.000	12920.000	12890.000	13060.000	13260.000	2640.000
3	01:21:49	76%	127.600	129.100	0.000	12810.000	12700.000	12840.000	13110.000	2591.000
x		92%	127.700	129.500	0.000	12820.000	12790.000	12940.000	13170.000	2624.000
$\sigma$		14%	2.852	3.258	0.000	87.910	96.770	110.200	79.650	28.470
%RSD		15	2.233	2.515	0.000	0.686	0.757	0.851	0.605	1.085
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:19:33	128.400	2627.000	0.000	0.000	6577.000	13430.000	12950.000	102%	128.900
2	01:20:41	133.500	2605.000	0.000	0.000	6545.000	12750.000	12840.000	102%	128.700
3	01:21:49	135.500	2573.000	0.000	0.000	6536.000	12660.000	12710.000	79%	125.900
x		132.400	2601.000	0.000	0.000	6553.000	12950.000	12830.000	94%	127.800
$\sigma$		3.673	27.100	0.000	0.000	21.280	419.000	120.100	13%	1.690
%RSD		2.773	1.042	0.000	0.000	0.325	3.235	0.936	14	1.322
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:19:33	129.700	131.200	-2.780	6674.000	259.100	6547.000	6454.000	130.700	134.900
2	01:20:41	127.700	129.200	-0.823	6599.000	258.600	6549.000	6489.000	131.300	131.800
3	01:21:49	125.900	128.500	-2.588	6558.000	258.100	6462.000	6369.000	128.200	133.600
x		127.800	129.600	-2.063	6610.000	258.600	6519.000	6437.000	130.000	133.400
$\sigma$		1.883	1.425	1.079	59.160	0.506	49.770	61.840	1.655	1.541
%RSD		1.474	1.099	52.280	0.895	0.196	0.763	0.961	1.273	1.155
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:19:33	263.700	266.700	258.600	127.400	129.800	-0.300	123.400	129.600	-0.291
2	01:20:41	266.100	263.600	259.400	127.300	130.700	-0.100	129.800	130.500	0.536
3	01:21:49	261.600	265.900	258.200	124.400	126.200	0.033	126.800	126.000	0.074
x		263.800	265.400	258.700	126.400	128.900	-0.122	126.700	128.700	0.107
$\sigma$		2.273	1.612	0.607	1.743	2.382	0.168	3.172	2.361	0.415
%RSD		0.862	0.608	0.235	1.379	1.848	137.300	2.504	1.834	389.200
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:19:33	123.600	123.100	124.100	124.600	122.900	-0.003	102%	132.300	128.200
2	01:20:41	125.000	123.400	125.600	124.300	125.700	-0.003	102%	129.400	127.900
3	01:21:49	125.700	123.200	121.500	124.400	124.500	-0.003	79%	120.400	125.700
x		124.800	123.200	123.700	124.400	124.400	-0.003	94%	127.400	127.300
$\sigma$		1.093	0.132	2.103	0.159	1.393	0.000	14%	6.238	1.381
%RSD		0.876	0.107	1.699	0.128	1.120	0.000	14	4.897	1.085
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:19:33	-2.524	132.500	128.100	127.900	123.600	124.600	634.700	631.800	106%
2	01:20:41	3.778	129.600	128.200	126.700	124.600	124.600	635.600	638.000	105%
3	01:21:49	3.437	120.500	125.900	127.700	122.000	121.500	621.700	622.700	81%
x		1.564	127.500	127.400	127.500	123.400	123.600	630.600	630.900	97%
$\sigma$		3.544	6.236	1.265	0.627	1.301	1.792	7.793	7.730	14%
%RSD		226.700	4.890	0.993	0.492	1.054	1.450	1.236	1.225	14
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:19:33	105%	126.700	127.200	127.600	127.000	127.300	104%	123.100	
2	01:20:41	104%	126.300	126.300	125.700	127.700	126.400	104%	122.400	
3	01:21:49	81%	126.800	126.900	126.800	127.000	127.200	85%	128.000	
x		97%	126.600	126.800	126.700	127.200	127.000	98%	124.500	
$\sigma$		13%	0.268	0.471	0.960	0.368	0.454	11%	3.023	
%RSD		14	0.212	0.371	0.758	0.289	0.357	11	2.428	

S3 (S) 11/17/2011 01:26:17 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:25	102%	250.100	237.200	0.000	24610.000	24350.000	25220.000	25620.000	4898.000
2	01:28:33	100%	255.900	246.200	0.000	25190.000	24970.000	25660.000	26070.000	5218.000
3	01:29:41	100%	254.400	249.000	0.000	24870.000	24620.000	25520.000	26030.000	5176.000
x		101%	253.500	244.100	0.000	24890.000	24650.000	25470.000	25900.000	5097.000
$\sigma$		1%	2.983	6.200	0.000	291.400	310.100	222.900	247.300	173.900
%RSD		1	1.177	2.539	0.000	1.171	1.258	0.875	0.955	3.411
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:25	254.000	5096.000	0.000	0.000	12470.000	24620.000	24820.000	103%	251.000
2	01:28:33	258.600	5195.000	0.000	0.000	12700.000	25430.000	25430.000	101%	252.600
3	01:29:41	251.000	5163.000	0.000	0.000	12640.000	24780.000	25330.000	101%	245.100
x		254.600	5151.000	0.000	0.000	12610.000	24940.000	25190.000	102%	249.600
$\sigma$		3.857	50.810	0.000	0.000	120.200	431.400	331.000	1%	3.918
%RSD		1.515	0.986	0.000	0.000	0.954	1.730	1.314	1	1.570
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:25	249.700	252.800	-0.993	12910.000	504.600	12650.000	12610.000	253.100	252.900
2	01:28:33	256.800	256.500	-3.228	13220.000	513.600	12880.000	12850.000	258.400	261.100
3	01:29:41	254.800	257.300	-3.397	13140.000	510.600	12880.000	12830.000	257.100	259.400
x		253.800	255.500	-2.539	13090.000	509.600	12800.000	12760.000	256.200	257.800
$\sigma$		3.666	2.415	1.342	161.200	4.545	133.700	134.600	2.774	4.348
%RSD		1.445	0.945	52.830	1.231	0.892	1.044	1.055	1.083	1.686
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:25	512.100	514.500	506.900	250.800	251.900	-0.443	245.900	251.800	-0.583
2	01:28:33	522.600	522.300	519.400	253.100	252.200	0.005	256.900	251.900	-4.684
3	01:29:41	518.600	521.400	514.800	252.300	249.600	-0.132	256.200	249.400	2.093
x		517.800	519.400	513.700	252.000	251.200	-0.190	253.000	251.000	-1.058
$\sigma$		5.294	4.302	6.320	1.167	1.394	0.229	6.180	1.376	3.414
%RSD		1.023	0.828	1.230	0.463	0.555	120.600	2.443	0.548	322.600
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:25	245.500	243.700	243.200	242.500	244.700	0.001	102%	249.000	250.700
2	01:28:33	248.800	247.800	251.400	249.700	250.200	0.005	101%	251.800	254.100
3	01:29:41	250.300	250.500	249.700	247.800	250.900	0.005	100%	254.800	253.400
x		248.200	247.300	248.100	246.700	248.600	0.004	101%	251.900	252.700
$\sigma$		2.467	3.406	4.343	3.748	3.374	0.002	1%	2.904	1.818
%RSD		0.994	1.377	1.750	1.519	1.357	58.960	1	1.153	0.719
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:25	2.660	249.300	252.600	247.000	246.500	243.300	1241.000	1252.000	105%
2	01:28:33	8.223	252.100	253.800	254.200	248.900	248.600	1266.000	1265.000	104%
3	01:29:41	1.236	255.100	255.000	251.900	250.200	249.800	1255.000	1264.000	104%
x		4.039	252.200	253.800	251.100	248.500	247.200	1254.000	1260.000	104%
$\sigma$		3.692	2.901	1.235	3.713	1.903	3.433	12.380	7.339	1%
%RSD		91.400	1.150	0.487	1.479	0.766	1.388	0.987	0.582	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:27:25	105%	249.600	249.700	248.800	249.500	249.300	105%	242.900	
2	01:28:33	105%	250.300	250.800	249.000	252.200	250.900	104%	244.800	
3	01:29:41	104%	252.900	253.300	252.800	252.600	253.300	103%	247.100	
x		104%	250.900	251.300	250.200	251.400	251.200	104%	244.900	
$\sigma$		1%	1.724	1.844	2.245	1.713	1.994	1%	2.107	
%RSD		1	0.687	0.734	0.897	0.681	0.794	1	0.860	

S4 (S) 11/17/2011 01:34:09 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:17	96%	508.400	512.900	0.000	49520.000	48780.000	49930.000	50840.000	9865.000
2	01:36:25	95%	512.200	512.500	0.000	50110.000	49450.000	50580.000	51050.000	9914.000
3	01:37:33	100%	496.100	501.600	0.000	48990.000	48030.000	49360.000	50250.000	9672.000
x		97%	505.600	509.000	0.000	49540.000	48750.000	49960.000	50710.000	9817.000
$\sigma$		2%	8.380	6.397	0.000	562.300	708.300	610.000	417.200	128.000
%RSD		3	1.658	1.257	0.000	1.135	1.453	1.221	0.823	1.304
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:17	505.300	10390.000	0.000	0.000	25190.000	49940.000	49910.000	100%	507.000
2	01:36:25	511.000	10300.000	0.000	0.000	25100.000	50130.000	50150.000	100%	499.800
3	01:37:33	494.200	10110.000	0.000	0.000	25020.000	49920.000	50050.000	100%	490.600
x		503.500	10270.000	0.000	0.000	25100.000	50000.000	50040.000	100%	499.100
$\sigma$		8.542	141.900	0.000	0.000	85.470	117.100	122.500	0%	8.212
%RSD		1.696	1.381	0.000	0.000	0.341	0.234	0.245	0	1.645
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:17	506.300	506.700	-5.031	25770.000	1003.000	25190.000	25260.000	508.100	514.200
2	01:36:25	505.200	510.200	-2.997	25990.000	1014.000	25500.000	25460.000	509.900	513.200
3	01:37:33	501.600	507.000	-0.819	25910.000	1012.000	25220.000	25380.000	509.500	505.800
x		504.400	508.000	-2.949	25890.000	1010.000	25310.000	25370.000	509.200	511.100
$\sigma$		2.495	1.959	2.107	108.100	5.660	169.600	101.900	0.962	4.606
%RSD		0.495	0.386	71.430	0.418	0.561	0.670	0.402	0.189	0.901
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:17	1023.000	1016.000	1010.000	503.400	501.300	-0.304	505.300	501.400	-0.542
2	01:36:25	1021.000	1023.000	1015.000	501.100	508.000	-0.303	504.600	507.900	-1.116
3	01:37:33	1022.000	1020.000	1014.000	507.900	516.900	-0.937	498.700	516.700	2.281
x		1022.000	1020.000	1013.000	504.100	508.700	-0.515	502.800	508.700	0.208
$\sigma$		0.807	3.429	2.742	3.435	7.827	0.366	3.619	7.689	1.819
%RSD		0.079	0.336	0.271	0.681	1.539	71.030	0.720	1.512	876.100
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:17	491.000	489.800	489.100	491.000	489.800	0.001	98%	487.700	499.400
2	01:36:25	498.800	494.500	494.500	495.400	500.300	0.009	98%	496.300	500.200
3	01:37:33	496.700	497.500	499.500	499.900	497.400	0.001	99%	492.400	498.700
x		495.500	493.900	494.300	495.400	495.800	0.004	98%	492.100	499.400
$\sigma$		4.028	3.888	5.198	4.445	5.413	0.005	0%	4.314	0.768
%RSD		0.813	0.787	1.052	0.897	1.092	114.400	0	0.877	0.154
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:35:17	15.270	487.900	501.100	490.200	490.900	493.300	2493.000	2502.000	103%
2	01:36:25	14.440	496.600	502.000	498.700	494.500	492.200	2505.000	2506.000	103%
3	01:37:33	15.370	492.800	501.200	505.400	499.500	501.100	2506.000	2505.000	103%
x		15.030	492.400	501.400	498.100	495.000	495.500	2501.000	2504.000	103%
$\sigma$		0.511	4.374	0.524	7.633	4.315	4.853	7.583	2.213	0%
%RSD		3.401	0.888	0.105	1.532	0.872	0.980	0.303	0.088	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:35:17	103%	500.400	500.500	498.300	500.300	498.300	101%	490.100	
2	01:36:25	102%	498.600	499.300	498.500	499.900	500.400	101%	488.000	
3	01:37:33	103%	500.500	501.500	500.700	502.500	502.700	102%	493.200	
x		103%	499.900	500.500	499.200	500.900	500.500	101%	490.400	
$\sigma$		0%	1.073	1.110	1.333	1.391	2.188	0%	2.626	
%RSD		0	0.215	0.222	0.267	0.278	0.437	0	0.535	

S5 (S) 11/17/2011 01:42:02 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Ar
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:43:10	98%	977.800	956.900	0.000	98850.000	96630.000	98400.000	97730.000	18760.000
2	01:44:18	98%	993.200	998.800	0.000	100000.000	97910.000	99900.000	99600.000	19160.000
3	01:45:26	95%	1017.000	1033.000	0.000	101800.000	99600.000	101200.000	100700.000	19280.000
x		97%	996.000	996.400	0.000	100200.000	98050.000	99850.000	99330.000	19070.000
σ		1%	19.750	38.370	0.000	1481.000	1491.000	1420.000	1490.000	271.500
%RSD		2	1.983	3.850	0.000	1.478	1.521	1.422	1.500	1.424
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:43:10	983.100	19570.000	0.000	0.000	49320.000	99120.000	98770.000	102%	987.300
2	01:44:18	1004.000	19850.000	0.000	0.000	50320.000	100300.000	101000.000	101%	1009.000
3	01:45:26	1001.000	20030.000	0.000	0.000	50010.000	100500.000	99870.000	102%	1004.000
x		996.200	19810.000	0.000	0.000	49880.000	99960.000	99890.000	101%	1000.000
σ		11.410	228.600	0.000	0.000	514.700	734.000	1131.000	0%	11.390
%RSD		1.145	1.154	0.000	0.000	1.032	0.734	1.133	0	1.138
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:43:10	983.700	983.100	-2.580	48850.000	1969.000	49270.000	49120.000	985.200	984.600
2	01:44:18	1007.000	1004.000	-7.320	49590.000	2004.000	49970.000	50270.000	999.100	999.600
3	01:45:26	998.700	995.400	0.831	49650.000	2001.000	49980.000	49790.000	995.400	990.200
x		996.500	994.100	-3.023	49360.000	1992.000	49740.000	49730.000	993.200	991.500
σ		11.850	10.360	4.094	441.600	19.580	407.300	578.100	7.193	7.546
%RSD		1.189	1.042	135.400	0.895	0.983	0.819	1.163	0.724	0.761
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:43:10	1962.000	1960.000	1962.000	986.500	984.900	-1.137	981.200	984.400	0.959
2	01:44:18	1996.000	1998.000	2013.000	1005.000	1007.000	-0.184	1008.000	1007.000	0.807
3	01:45:26	1990.000	1992.000	1992.000	1000.000	993.100	-0.425	1004.000	993.800	1.351
x		1983.000	1983.000	1989.000	997.300	994.800	-0.582	997.600	995.000	1.039
σ		18.110	20.730	25.390	9.542	10.920	0.496	14.350	11.120	0.280
%RSD		0.913	1.045	1.277	0.957	1.098	85.190	1.439	1.118	26.980
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:43:10	981.600	978.600	980.900	979.000	980.400	0.001	100%	979.700	981.800
2	01:44:18	1015.000	1016.000	1016.000	1020.000	1018.000	0.001	99%	1005.000	1009.000
3	01:45:26	1012.000	1018.000	1013.000	1011.000	1009.000	0.021	99%	1025.000	1007.000
x		1003.000	1004.000	1003.000	1003.000	1003.000	0.008	99%	1003.000	999.300
σ		18.390	21.960	19.580	21.400	19.710	0.012	1%	22.490	15.180
%RSD		1.834	2.187	1.952	2.133	1.966	144.400	1	2.242	1.519
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:43:10	16.590	979.700	982.100	981.100	988.000	987.000	4931.000	4917.000	107%
2	01:44:18	27.670	1005.000	1006.000	1008.000	1010.000	1012.000	5063.000	5060.000	106%
3	01:45:26	16.790	1024.000	1006.000	1012.000	1011.000	1010.000	4999.000	5007.000	107%
x		20.350	1003.000	998.000	1000.000	1003.000	1003.000	4998.000	4995.000	107%
σ		6.344	22.180	13.840	16.770	13.090	14.010	65.790	72.390	1%
%RSD		31.180	2.211	1.387	1.677	1.305	1.397	1.316	1.449	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:43:10	107%	994.300	992.600	989.600	993.100	991.800	104%	996.800	
2	01:44:18	106%	998.700	999.400	1005.000	1002.000	1003.000	104%	1008.000	
3	01:45:26	107%	1006.000	1006.000	1006.000	1001.000	1002.000	104%	1014.000	
x		107%	999.600	999.200	1000.000	998.900	999.200	104%	1006.000	
σ		0%	5.873	6.556	9.182	5.111	6.416	0%	8.618	
%RSD		0	0.588	0.656	0.918	0.512	0.642	0	0.857	

ICV12 11/17/2011 01:49:56 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:03	98%	99.460	526.300	0.000	2152.000	1310.000	1334.000	1343.000	542.400
2	01:52:12	95%	102.500	521.300	0.000	2198.000	1348.000	1342.000	1364.000	557.300
3	01:53:20	98%	97.000	500.400	0.000	2123.000	1298.000	1324.000	1328.000	546.100
x		97%	99.660	516.000	0.000	2158.000	1318.000	1334.000	1345.000	548.600
$\sigma$		2%	2.761	13.770	0.000	38.100	26.010	9.218	17.830	7.781
%RSD		2	2.771	2.668	0.000	1.766	1.973	0.691	1.326	1.418
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:03	503.000	13.740	0.000	0.000	2058.000	2066.000	2120.000	101%	483.300
2	01:52:12	512.000	13.170	0.000	0.000	2082.000	2123.000	2129.000	101%	492.200
3	01:53:20	501.500	7.647	0.000	0.000	2054.000	2088.000	2115.000	101%	492.000
x		505.500	11.520	0.000	0.000	2065.000	2093.000	2121.000	101%	489.200
$\sigma$		5.688	3.365	0.000	0.000	14.840	28.720	7.351	0%	5.043
%RSD		1.125	29.210	0.000	0.000	0.719	1.373	0.347	0	1.031
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:03	101.400	102.300	-3.100	1094.000	103.100	1107.000	1068.000	102.500	105.600
2	01:52:12	101.700	103.400	-2.969	1101.000	104.200	1112.000	1067.000	103.900	105.700
3	01:53:20	101.800	103.500	-3.139	1072.000	103.800	1096.000	1055.000	103.000	107.100
x		101.600	103.100	-3.069	1089.000	103.700	1105.000	1063.000	103.200	106.100
$\sigma$		0.203	0.637	0.089	15.200	0.554	8.588	7.259	0.720	0.838
%RSD		0.200	0.618	2.902	1.396	0.534	0.777	0.683	0.698	0.789
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:03	106.300	104.900	206.000	201.000	205.600	-0.373	200.100	205.100	1.393
2	01:52:12	105.900	105.300	207.400	196.800	193.900	0.230	200.700	193.300	0.591
3	01:53:20	105.900	106.200	209.300	200.200	201.000	-0.391	197.300	200.200	-2.817
x		106.000	105.500	207.600	199.300	200.200	-0.178	199.300	199.500	-0.278
$\sigma$		0.257	0.677	1.612	2.224	5.890	0.353	1.825	5.916	2.235
%RSD		0.242	0.642	0.777	1.116	2.943	198.600	0.915	2.965	804.700
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:03	490.200	489.200	489.500	491.200	489.800	0.001	102%	103.500	91.940
2	01:52:12	494.600	492.500	495.800	496.600	492.300	0.009	102%	105.200	93.110
3	01:53:20	486.800	491.100	489.400	491.500	490.900	0.017	103%	98.100	90.680
x		490.500	490.900	491.600	493.100	491.000	0.009	103%	102.300	91.910
$\sigma$		3.899	1.648	3.650	3.008	1.222	0.008	1%	3.714	1.212
%RSD		0.795	0.336	0.743	0.610	0.249	85.800	1	3.631	1.318
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:51:03	4.611	103.600	92.630	104.600	496.200	194.500	104.500	105.800	106%
2	01:52:12	1.439	105.300	93.290	103.800	502.000	195.300	104.800	105.400	105%
3	01:53:20	5.336	98.260	91.040	99.820	491.300	192.100	104.600	104.900	105%
x		3.796	102.400	92.320	102.700	496.500	194.000	104.700	105.300	106%
$\sigma$		2.073	3.690	1.159	2.569	5.370	1.625	0.139	0.465	1%
%RSD		54.610	3.603	1.255	2.500	1.082	0.838	0.133	0.441	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:51:03	107%	205.900	205.000	207.400	197.100	202.400	107%	0.857	
2	01:52:12	104%	207.000	206.000	209.600	197.900	203.600	105%	0.842	
3	01:53:20	104%	202.500	204.100	207.700	197.700	202.300	106%	0.680	
x		105%	205.200	205.000	208.300	197.600	202.800	106%	0.793	
$\sigma$		1%	2.341	0.949	1.185	0.426	0.707	1%	0.098	
%RSD		1	1.141	0.463	0.569	0.216	0.349	1	12.410	

ICB12 11/17/2011 01:57:49 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:58:57		98%	0.217	13.810	0.000	26.570	10.050	8.657	8.727	-0.002
2	02:00:05		96%	0.253	9.565	0.000	22.400	3.696	2.200	3.961	-0.671
3	02:01:13		100%	0.052	11.100	0.000	6.951	1.142	-0.272	1.223	-2.125
x			98%	0.174	11.490	0.000	18.640	4.962	3.528	4.637	-0.933
$\sigma$			2%	0.108	2.149	0.000	10.340	4.586	4.610	3.797	1.085
%RSD			2	61.790	18.700	0.000	55.450	92.430	130.700	81.880	116.400
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:58:57		0.004	4.074	0.000	0.000	-9.897	-6.752	0.871	102%	-0.101
2	02:00:05		-0.046	-2.873	0.000	0.000	-10.740	-11.540	-2.667	102%	0.193
3	02:01:13		-1.005	-2.283	0.000	0.000	-17.290	7.668	-5.765	103%	0.043
x			-0.349	-0.360	0.000	0.000	-12.640	-3.543	-2.520	102%	0.045
$\sigma$			0.569	3.852	0.000	0.000	4.048	10.000	3.321	0%	0.147
%RSD			162.900	1069.000	0.000	0.000	32.020	282.200	131.800	0	327.200
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:58:57		-0.117	0.178	-1.488	2.061	0.153	0.956	1.580	0.105	0.233
2	02:00:05		0.109	0.215	-1.807	-2.242	-0.003	-3.340	3.862	0.011	0.047
3	02:01:13		0.014	0.009	-1.951	-10.430	-0.056	-6.831	-8.521	-0.029	0.038
x			0.002	0.134	-1.749	-3.537	0.031	-3.072	-1.026	0.029	0.106
$\sigma$			0.114	0.110	0.237	6.346	0.108	3.900	6.590	0.069	0.110
%RSD			5009.000	81.810	13.550	179.400	346.300	127.000	642.100	236.500	104.000
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:58:57		0.189	0.212	-0.055	-0.044	-0.149	0.019	-0.261	-0.150	-2.906
2	02:00:05		0.008	-0.083	-0.336	0.083	0.093	-0.031	-0.546	0.092	-2.863
3	02:01:13		0.009	-0.103	-0.358	0.073	-0.243	-0.021	-1.567	-0.244	-2.897
x			0.069	0.009	-0.250	0.038	-0.100	-0.011	-0.791	-0.101	-2.888
$\sigma$			0.104	0.176	0.169	0.071	0.174	0.027	0.687	0.173	0.023
%RSD			151.900	2011.000	67.680	187.100	173.800	239.300	86.800	172.200	0.780
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:58:57		3.371	3.700	3.404	3.633	3.388	-0.003	104%	-0.532	0.118
2	02:00:05		2.774	2.650	2.729	2.702	2.635	-0.003	103%	-1.312	0.031
3	02:01:13		2.256	2.099	1.924	2.307	2.158	-0.003	104%	-1.033	0.010
x			2.800	2.816	2.686	2.880	2.727	-0.003	104%	-0.959	0.053
$\sigma$			0.558	0.814	0.741	0.681	0.621	0.000	0%	0.395	0.057
%RSD			19.930	28.880	27.590	23.640	22.760	0.000	0	41.240	107.800
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	01:58:57		0.384	-0.536	0.102	0.080	1.236	1.489	0.464	0.290	105%
2	02:00:05		0.532	-1.321	0.069	-0.021	0.856	0.922	0.085	0.057	106%
3	02:01:13		0.534	-1.037	0.001	-0.095	0.713	0.659	-0.094	-0.107	105%
x			0.483	-0.965	0.057	-0.012	0.935	1.024	0.152	0.080	105%
$\sigma$			0.086	0.398	0.052	0.088	0.270	0.424	0.285	0.199	0%
%RSD			17.820	41.210	90.070	732.600	28.890	41.460	188.000	249.700	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U		
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb		
1	01:58:57		105%	0.175	0.180	0.146	0.199	0.173	106%	0.065	
2	02:00:05		106%	0.110	0.099	0.071	0.045	0.068	106%	0.013	
3	02:01:13		105%	0.061	0.043	0.014	0.005	0.022	106%	-0.006	
x			105%	0.115	0.107	0.077	0.083	0.087	106%	0.024	
$\sigma$			0%	0.058	0.069	0.066	0.103	0.077	0%	0.037	
%RSD			0	49.990	64.310	86.030	123.600	88.460	0	155.300	

ICSA12 11/17/2011 02:05:43 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Ar
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:51	92%	0.631	8.069	0.000	99620.000	98250.000	100100.000	99860.000	94700.000
2	02:07:59	91%	0.578	4.929	0.000	102100.000	100100.000	101900.000	101600.000	96650.000
3	02:09:07	93%	0.491	7.165	0.000	100100.000	97820.000	99740.000	99750.000	94150.000
x		92%	0.567	6.721	0.000	100600.000	98720.000	100600.000	100400.000	95160.000
$\sigma$		1%	0.071	1.616	0.000	1281.000	1204.000	1146.000	1064.000	1312.000
%RSD		1	12.470	24.040	0.000	1.273	1.220	1.139	1.060	1.378
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:51	32.490	99320.000	0.000	0.000	99080.000	100100.000	100100.000	93%	2098.000
2	02:07:59	35.440	100300.000	0.000	0.000	100600.000	102800.000	101700.000	94%	2143.000
3	02:09:07	31.700	98290.000	0.000	0.000	98140.000	100100.000	99660.000	95%	2093.000
x		33.210	99300.000	0.000	0.000	99270.000	101000.000	100500.000	94%	2111.000
$\sigma$		1.971	1008.000	0.000	0.000	1234.000	1583.000	1095.000	1%	27.490
%RSD		5.935	1.016	0.000	0.000	1.243	1.567	1.089	1	1.302
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:51	-0.337	20.910	29.160	98750.000	8.281	99350.000	99160.000	1.297	6.842
2	02:07:59	-0.122	21.170	33.020	99740.000	8.469	100200.000	100600.000	1.407	6.664
3	02:09:07	0.052	20.690	35.180	97390.000	8.014	98570.000	98150.000	1.296	6.258
x		-0.136	20.920	32.460	98630.000	8.255	99360.000	99290.000	1.333	6.588
$\sigma$		0.194	0.240	3.053	1182.000	0.229	801.500	1217.000	0.064	0.300
%RSD		143.400	1.148	9.406	1.199	2.775	0.807	1.225	4.777	4.548
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:51	8.578	8.636	12.880	0.231	0.549	0.184	-1.775	0.548	-0.642
2	02:07:59	8.745	8.770	12.520	0.263	0.333	0.155	-0.638	0.333	1.495
3	02:09:07	8.448	8.687	12.340	0.153	-0.054	0.217	-1.760	-0.054	0.157
x		8.590	8.698	12.580	0.216	0.276	0.185	-1.391	0.276	0.337
$\sigma$		0.149	0.068	0.275	0.057	0.306	0.031	0.652	0.305	1.080
%RSD		1.728	0.778	2.184	26.330	110.800	16.720	46.870	110.500	320.500
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:51	2027.000	2030.000	2022.000	2038.000	2030.000	0.010	94%	2.162	0.069
2	02:07:59	2073.000	2083.000	2088.000	2083.000	2085.000	0.014	93%	-0.006	0.099
3	02:09:07	2052.000	2048.000	2055.000	2056.000	2059.000	0.035	94%	-0.800	0.079
x		2050.000	2054.000	2055.000	2059.000	2058.000	0.020	94%	0.452	0.082
$\sigma$		22.970	26.840	32.790	22.950	27.570	0.013	0%	1.533	0.015
%RSD		1.120	1.307	1.596	1.115	1.340	67.700	1	339.400	18.570
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:06:51	17.580	2.131	0.087	1.155	0.837	1.605	1.661	1.361	103%
2	02:07:59	18.790	-0.034	0.062	1.433	0.814	1.428	1.317	1.536	102%
3	02:09:07	18.990	-0.827	0.040	1.178	0.747	1.315	1.383	1.303	103%
x		18.460	0.423	0.063	1.255	0.799	1.449	1.454	1.400	102%
$\sigma$		0.762	1.531	0.023	0.155	0.047	0.146	0.182	0.121	1%
%RSD		4.127	361.800	37.110	12.300	5.829	10.090	12.540	8.662	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	02:06:51	103%	0.379	0.383	4.911	4.425	4.633	99%	0.039	
2	02:07:59	102%	0.231	0.287	5.153	4.540	4.711	99%	0.039	
3	02:09:07	103%	0.207	0.183	4.995	4.486	4.585	100%	0.023	
x		103%	0.272	0.284	5.020	4.484	4.643	99%	0.033	
$\sigma$		1%	0.093	0.100	0.123	0.058	0.063	1%	0.009	
%RSD		1	34.330	35.220	2.448	1.283	1.364	1	26.390	

ICSAB12 11/17/2011 02:13:37 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:14:45	92%	20.670	6.083	0.000	100800.000	98290.000	99580.000	99680.000	94300.000
2	02:15:53	91%	20.430	4.966	0.000	100800.000	98830.000	99910.000	100100.000	94500.000
3	02:17:01	93%	20.860	2.809	0.000	99750.000	97910.000	99110.000	98730.000	93560.000
x		92%	20.660	4.619	0.000	100400.000	98350.000	99530.000	99500.000	94120.000
$\sigma$		1%	0.218	1.664	0.000	590.000	461.700	399.100	704.100	498.700
%RSD		1	1.057	36.030	0.000	0.587	0.469	0.401	0.708	0.530
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:14:45	31.130	98720.000	0.000	0.000	98170.000	99230.000	99470.000	94%	2095.000
2	02:15:53	34.200	99210.000	0.000	0.000	98280.000	100800.000	99210.000	94%	2071.000
3	02:17:01	31.900	97960.000	0.000	0.000	97480.000	99720.000	99290.000	95%	2091.000
x		32.410	98630.000	0.000	0.000	97980.000	99930.000	99320.000	94%	2086.000
$\sigma$		1.596	630.700	0.000	0.000	432.500	825.500	132.400	0%	13.010
%RSD		4.923	0.640	0.000	0.000	0.441	0.826	0.133	0	0.624
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:14:45	18.790	41.240	37.000	97400.000	27.960	98000.000	98080.000	21.150	26.420
2	02:15:53	19.010	40.520	39.480	97590.000	28.040	98070.000	97810.000	21.140	26.580
3	02:17:01	18.140	40.420	42.700	97170.000	28.040	98030.000	98200.000	21.370	27.620
x		18.640	40.730	39.730	97390.000	28.010	98030.000	98030.000	21.220	26.870
$\sigma$		0.454	0.447	2.858	213.200	0.045	36.940	203.700	0.129	0.653
%RSD		2.433	1.096	7.194	0.219	0.162	0.038	0.208	0.609	2.428
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:14:45	28.030	28.880	31.220	20.320	20.550	0.162	19.280	20.530	3.271
2	02:15:53	28.350	28.640	31.290	20.640	23.670	0.109	19.780	23.630	-0.104
3	02:17:01	27.560	29.230	32.030	20.900	21.840	0.095	17.460	21.810	-3.428
x		27.980	28.920	31.510	20.620	22.020	0.122	18.840	21.990	-0.087
$\sigma$		0.401	0.294	0.445	0.289	1.570	0.036	1.220	1.559	3.350
%RSD		1.433	1.017	1.412	1.400	7.131	29.180	6.477	7.088	3856.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:14:45	2024.000	2033.000	2039.000	2038.000	2031.000	0.010	94%	19.370	19.350
2	02:15:53	2022.000	2032.000	2033.000	2027.000	2027.000	0.027	94%	21.680	18.930
3	02:17:01	2028.000	2027.000	2028.000	2035.000	2027.000	0.022	94%	20.270	19.240
x		2025.000	2031.000	2033.000	2033.000	2028.000	0.020	94%	20.440	19.170
$\sigma$		3.228	3.383	5.622	5.721	2.422	0.009	0%	1.166	0.220
%RSD		0.159	0.167	0.277	0.281	0.119	43.910	1	5.705	1.145
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:14:45	18.280	19.330	19.690	20.990	0.600	21.340	21.170	21.280	102%
2	02:15:53	18.820	21.640	20.000	21.360	0.591	21.030	20.990	21.480	103%
3	02:17:01	17.930	20.230	19.120	20.970	0.522	20.810	21.590	21.080	103%
x		18.340	20.400	19.600	21.100	0.571	21.060	21.250	21.280	103%
$\sigma$		0.451	1.167	0.447	0.219	0.042	0.262	0.308	0.203	0%
%RSD		2.458	5.719	2.280	1.038	7.421	1.245	1.450	0.953	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	02:14:45	103%	20.100	20.220	26.450	23.700	24.760	99%	0.009	
2	02:15:53	102%	20.300	20.270	26.470	24.430	24.900	99%	0.001	
3	02:17:01	103%	20.320	20.260	25.980	23.580	24.820	100%	-0.000	
x		103%	20.240	20.250	26.300	23.900	24.830	99%	0.003	
$\sigma$		0%	0.125	0.028	0.277	0.459	0.071	1%	0.005	
%RSD		0	0.615	0.136	1.052	1.918	0.287	1	154.400	

ICSA12X10 11/17/2011 02:21:31 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:22:39	94%	0.177	3.305	0.000	10290.000	10120.000	10260.000	10430.000	9719.000
2	02:23:47	93%	0.048	1.930	0.000	10370.000	10210.000	10350.000	10510.000	9791.000
3	02:24:55	94%	0.091	2.488	0.000	10490.000	10370.000	10490.000	10660.000	9931.000
x		94%	0.105	2.575	0.000	10380.000	10230.000	10370.000	10540.000	9814.000
$\sigma$		1%	0.066	0.692	0.000	98.980	124.400	112.600	116.700	108.000
%RSD		1	62.560	26.870	0.000	0.954	1.216	1.086	1.108	1.100
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:22:39	3.525	10140.000	0.000	0.000	10210.000	10260.000	10090.000	97%	213.000
2	02:23:47	4.631	10190.000	0.000	0.000	10210.000	10200.000	10110.000	97%	213.400
3	02:24:55	4.786	10340.000	0.000	0.000	10370.000	9989.000	10290.000	96%	215.100
x		4.314	10220.000	0.000	0.000	10260.000	10150.000	10170.000	97%	213.800
$\sigma$		0.688	105.100	0.000	0.000	89.410	142.700	108.400	1%	1.107
%RSD		15.940	1.028	0.000	0.000	0.871	1.406	1.067	1	0.518
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:22:39	-0.256	2.222	7.093	10320.000	0.961	10100.000	9962.000	0.149	0.873
2	02:23:47	-0.087	1.913	7.005	10350.000	0.885	10080.000	10050.000	0.154	0.792
3	02:24:55	-0.128	2.082	6.646	10520.000	0.955	10340.000	10220.000	0.145	1.099
x		-0.157	2.073	6.915	10400.000	0.934	10170.000	10080.000	0.149	0.921
$\sigma$		0.088	0.155	0.237	107.300	0.042	142.400	133.200	0.005	0.159
%RSD		56.200	7.479	3.424	1.032	4.538	1.399	1.321	3.238	17.290
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:22:39	0.862	0.899	1.452	-0.145	-0.724	0.062	-1.606	-0.723	0.922
2	02:23:47	0.838	0.825	1.636	0.194	0.297	-0.014	-1.319	0.295	0.659
3	02:24:55	0.914	0.923	1.295	0.264	0.061	-0.001	-0.645	0.058	-1.324
x		0.871	0.882	1.461	0.104	-0.122	0.016	-1.190	-0.123	0.086
$\sigma$		0.039	0.051	0.171	0.218	0.534	0.040	0.493	0.532	1.228
%RSD		4.475	5.789	11.680	209.600	438.000	253.800	41.450	431.600	1436.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:22:39	202.100	201.600	203.700	203.100	203.500	-0.003	99%	-1.877	0.009
2	02:23:47	207.100	205.800	207.400	205.200	206.700	0.001	99%	0.390	0.018
3	02:24:55	202.700	204.800	206.500	209.800	205.900	0.001	99%	-0.949	-0.002
x		204.000	204.100	205.900	206.100	205.400	0.000	99%	-0.812	0.008
$\sigma$		2.753	2.190	1.912	3.445	1.643	0.002	0%	1.140	0.010
%RSD		1.350	1.073	0.929	1.672	0.800	7437.000	0	140.400	117.300
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:22:39	2.300	-1.892	0.007	0.115	0.138	0.167	0.141	0.139	104%
2	02:23:47	1.484	0.377	0.034	0.129	0.133	0.015	0.074	0.136	103%
3	02:24:55	2.045	-0.962	0.039	0.119	0.140	-0.032	0.017	0.038	102%
x		1.943	-0.825	0.027	0.121	0.137	0.050	0.077	0.104	103%
$\sigma$		0.417	1.141	0.017	0.007	0.004	0.104	0.062	0.057	1%
%RSD		21.480	138.200	63.150	6.097	2.638	208.600	80.300	54.820	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	02:22:39	104%	0.064	0.055	0.556	0.475	0.531	104%	0.002	
2	02:23:47	103%	0.051	0.054	0.593	0.575	0.562	103%	-0.008	
3	02:24:55	103%	0.044	0.035	0.627	0.526	0.564	103%	0.001	
x		103%	0.053	0.048	0.592	0.525	0.552	103%	-0.002	
$\sigma$		1%	0.011	0.011	0.036	0.050	0.018	0%	0.006	
%RSD		1	20.020	22.740	6.006	9.480	3.306	0	325.100	

ICSAB12X10 11/17/2011 02:29:25 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:30:33	94%	2.371	2.480	0.000	10410.000	10260.000	10430.000	10610.000	9858.000
2	02:31:41	96%	2.184	2.097	0.000	10070.000	9917.000	10090.000	10320.000	9561.000
3	02:32:49	91%	2.310	1.417	0.000	10650.000	10460.000	10690.000	10860.000	10060.000
x		94%	2.289	1.998	0.000	10380.000	10210.000	10400.000	10590.000	9828.000
$\sigma$		3%	0.095	0.538	0.000	287.900	276.100	304.300	271.600	253.300
%RSD		3	4.166	26.940	0.000	2.775	2.703	2.926	2.564	2.577
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:30:33	4.529	10370.000	0.000	0.000	10350.000	10430.000	10270.000	95%	214.800
2	02:31:41	4.651	9987.000	0.000	0.000	10000.000	9898.000	9999.000	97%	208.100
3	02:32:49	5.118	10540.000	0.000	0.000	10390.000	10300.000	10330.000	96%	215.900
x		4.766	10300.000	0.000	0.000	10250.000	10210.000	10200.000	96%	212.900
$\sigma$		0.311	284.200	0.000	0.000	213.400	275.300	178.000	1%	4.210
%RSD		6.523	2.759	0.000	0.000	2.083	2.697	1.744	1	1.977
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:30:33	2.455	4.264	4.492	10520.000	2.946	10320.000	10270.000	2.273	3.088
2	02:31:41	1.999	4.001	4.756	10230.000	3.071	10000.000	9906.000	2.195	2.961
3	02:32:49	1.975	4.391	5.477	10660.000	2.981	10450.000	10330.000	2.282	2.700
x		2.143	4.219	4.908	10470.000	2.999	10260.000	10170.000	2.250	2.916
$\sigma$		0.271	0.199	0.510	218.500	0.065	229.900	228.100	0.048	0.198
%RSD		12.630	4.714	10.380	2.087	2.156	2.242	2.244	2.135	6.798
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:30:33	3.147	2.898	3.444	2.172	2.028	0.006	1.072	2.018	-0.929
2	02:31:41	2.896	3.008	3.186	1.749	1.359	0.053	0.903	1.356	-1.326
3	02:32:49	3.143	3.128	3.414	2.069	2.191	0.013	0.838	2.184	-3.546
x		3.062	3.011	3.348	1.996	1.859	0.024	0.938	1.853	-1.934
$\sigma$		0.144	0.115	0.141	0.221	0.441	0.025	0.121	0.438	1.410
%RSD		4.685	3.816	4.216	11.050	23.710	105.400	12.870	23.660	72.940
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:30:33	201.600	203.000	205.700	205.200	206.400	0.001	97%	2.550	2.030
2	02:31:41	200.300	200.600	202.600	207.400	202.400	-0.003	98%	0.917	2.049
3	02:32:49	210.200	209.000	209.500	207.200	209.700	0.001	97%	2.532	2.068
x		204.000	204.200	205.900	206.600	206.200	0.000	97%	2.000	2.049
$\sigma$		5.367	4.340	3.441	1.172	3.648	0.002	1%	0.938	0.019
%RSD		2.631	2.125	1.671	0.567	1.769	2985.000	1	46.890	0.936
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:30:33	1.701	2.538	2.076	2.285	0.140	1.888	2.146	2.075	102%
2	02:31:41	2.759	0.906	1.841	2.183	0.115	1.901	1.905	2.088	102%
3	02:32:49	1.601	2.518	2.065	2.247	0.132	1.958	2.466	2.281	101%
x		2.021	1.987	1.994	2.238	0.129	1.916	2.172	2.148	102%
$\sigma$		0.642	0.937	0.133	0.051	0.013	0.037	0.282	0.115	0%
%RSD		31.750	47.130	6.643	2.299	10.070	1.942	12.970	5.353	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	02:30:33	101%	2.094	1.973	2.632	2.424	2.507	102%	-0.003	
2	02:31:41	102%	2.037	2.066	2.746	2.561	2.603	102%	0.005	
3	02:32:49	101%	2.292	2.050	2.839	2.501	2.628	102%	0.015	
x		102%	2.141	2.030	2.739	2.495	2.579	102%	0.006	
$\sigma$		0%	0.134	0.050	0.104	0.069	0.064	0%	0.009	
%RSD		0	6.246	2.466	3.779	2.763	2.484	0	164.900	

CCV44 11/17/2011 02:37:19 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:38:27	95%	504.900	498.000	0.000	50070.000	49270.000	50220.000	51030.000	9835.000
2	02:39:35	93%	515.600	508.000	0.000	50770.000	49800.000	50880.000	51190.000	9865.000
3	02:40:43	92%	516.300	517.800	0.000	50800.000	49640.000	50910.000	51550.000	9954.000
x		93%	512.300	507.900	0.000	50550.000	49570.000	50670.000	51260.000	9885.000
$\sigma$		1%	6.408	9.877	0.000	412.800	270.900	388.400	267.900	61.770
%RSD		1	1.251	1.944	0.000	0.817	0.546	0.767	0.523	0.625
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:38:27	507.800	10270.000	0.000	0.000	25110.000	50270.000	50470.000	96%	504.800
2	02:39:35	511.000	10310.000	0.000	0.000	25280.000	50810.000	50860.000	96%	506.200
3	02:40:43	515.200	10380.000	0.000	0.000	25200.000	50520.000	50570.000	96%	504.600
x		511.300	10320.000	0.000	0.000	25200.000	50530.000	50630.000	96%	505.200
$\sigma$		3.697	54.390	0.000	0.000	83.860	271.300	202.500	0%	0.854
%RSD		0.723	0.527	0.000	0.000	0.333	0.537	0.400	0	0.169
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:38:27	508.800	512.200	0.827	26230.000	1018.000	25610.000	25720.000	512.600	518.600
2	02:39:35	507.300	512.000	1.661	26090.000	1020.000	25530.000	25690.000	514.200	509.600
3	02:40:43	506.400	509.400	1.424	25960.000	1019.000	25640.000	25560.000	509.900	513.400
x		507.500	511.200	1.304	26100.000	1019.000	25590.000	25650.000	512.200	513.800
$\sigma$		1.221	1.574	0.430	134.700	1.076	58.500	87.310	2.169	4.512
%RSD		0.241	0.308	32.960	0.516	0.106	0.229	0.340	0.423	0.878
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:38:27	1031.000	1036.000	1031.000	505.700	500.600	-0.038	504.600	500.000	0.986
2	02:39:35	1028.000	1028.000	1027.000	505.000	504.700	0.270	504.500	503.900	2.707
3	02:40:43	1027.000	1025.000	1012.000	505.800	513.800	-0.768	516.600	512.900	-1.737
x		1029.000	1030.000	1023.000	505.500	506.400	-0.179	508.600	505.600	0.652
$\sigma$		1.831	6.073	10.460	0.395	6.736	0.533	6.990	6.628	2.241
%RSD		0.178	0.590	1.022	0.078	1.330	298.300	1.374	1.311	343.600
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:38:27	500.400	500.000	502.200	504.500	500.500	0.006	95%	513.100	507.000
2	02:39:35	502.000	505.500	503.200	504.700	506.200	0.001	96%	508.200	507.700
3	02:40:43	498.200	502.900	502.500	499.500	502.500	0.001	96%	503.000	502.600
x		500.200	502.800	502.600	502.900	503.100	0.003	96%	508.100	505.800
$\sigma$		1.887	2.742	0.471	2.958	2.919	0.002	0%	5.030	2.776
%RSD		0.377	0.545	0.094	0.588	0.580	83.780	0	0.990	0.549
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:38:27	4.644	513.200	508.600	504.600	502.800	497.700	2501.000	2521.000	101%
2	02:39:35	6.861	508.400	506.800	511.200	502.900	501.000	2514.000	2523.000	101%
3	02:40:43	4.153	503.200	505.700	502.900	497.000	498.400	2483.000	2490.000	102%
x		5.220	508.200	507.000	506.200	500.900	499.000	2499.000	2511.000	101%
$\sigma$		1.443	5.008	1.434	4.375	3.404	1.770	15.440	18.320	0%
%RSD		27.640	0.985	0.283	0.864	0.680	0.355	0.618	0.730	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	02:38:27	101%	502.700	503.300	500.400	500.700	500.200	100%	498.300	
2	02:39:35	101%	508.000	505.600	504.900	506.300	507.500	100%	499.800	
3	02:40:43	102%	503.800	502.000	502.400	503.600	503.000	100%	497.700	
x		101%	504.800	503.600	502.600	503.500	503.600	100%	498.600	
$\sigma$		0%	2.812	1.794	2.230	2.780	3.725	0%	1.070	
%RSD		0	0.557	0.356	0.444	0.552	0.740	0	0.215	

CCB44 11/17/2011 02:45:10 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:46:18	99%	0.196	6.046	0.000	34.290	29.870	32.000	30.390	10.200
2	02:47:27	97%	0.252	7.624	0.000	33.310	19.990	19.290	20.050	6.505
3	02:48:34	95%	0.472	4.985	0.000	42.400	22.690	20.450	22.460	6.608
x		97%	0.307	6.218	0.000	36.670	24.180	23.910	24.300	7.769
$\sigma$		2%	0.146	1.328	0.000	4.990	5.107	7.024	5.411	2.101
%RSD		2	47.690	21.350	0.000	13.610	21.120	29.370	22.270	27.050
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:46:18	-0.881	11.350	0.000	0.000	3.055	34.320	26.470	99%	0.261
2	02:47:27	1.986	11.040	0.000	0.000	12.420	33.890	15.350	97%	0.435
3	02:48:34	0.680	5.298	0.000	0.000	17.880	27.390	17.740	97%	0.655
x		0.595	9.229	0.000	0.000	11.120	31.870	19.850	98%	0.450
$\sigma$		1.435	3.408	0.000	0.000	7.500	3.883	5.852	1%	0.198
%RSD		241.200	36.920	0.000	0.000	67.440	12.190	29.480	1	43.870
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:46:18	0.236	0.321	0.017	19.130	0.531	17.240	20.680	0.279	0.330
2	02:47:27	0.148	0.221	0.225	6.712	0.254	8.980	13.600	0.172	0.161
3	02:48:34	-0.014	0.243	0.093	11.110	0.315	6.846	16.480	0.161	0.208
x		0.123	0.262	0.112	12.320	0.367	11.020	16.920	0.204	0.233
$\sigma$		0.127	0.052	0.105	6.294	0.145	5.489	3.560	0.065	0.087
%RSD		102.600	20.070	94.510	51.100	39.660	49.800	21.040	31.880	37.510
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:46:18	0.443	0.310	0.206	0.201	0.118	0.008	-0.706	0.117	-0.656
2	02:47:27	0.335	0.322	0.072	0.314	0.135	-0.026	-1.431	0.134	-1.044
3	02:48:34	0.286	0.176	0.039	0.001	-0.229	0.002	-0.871	-0.230	-2.253
x		0.355	0.269	0.106	0.172	0.008	-0.005	-1.003	0.007	-1.318
$\sigma$		0.080	0.081	0.089	0.159	0.205	0.018	0.380	0.205	0.833
%RSD		22.680	30.230	83.950	92.250	2494.000	331.600	37.920	2893.000	63.200
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:46:18	3.007	2.899	3.227	3.292	2.917	-0.003	100%	1.004	0.283
2	02:47:27	2.715	2.624	2.377	2.441	2.691	-0.003	98%	-0.773	0.183
3	02:48:34	2.139	2.080	2.280	2.139	1.938	-0.003	99%	2.335	0.163
x		2.620	2.535	2.628	2.624	2.515	-0.003	99%	0.856	0.210
$\sigma$		0.442	0.417	0.521	0.598	0.512	0.000	1%	1.559	0.065
%RSD		16.860	16.440	19.830	22.790	20.370	0.000	1	182.300	30.790
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:46:18	-0.315	0.998	0.295	0.257	0.946	1.164	1.767	2.072	103%
2	02:47:27	0.309	-0.782	0.203	0.031	0.716	0.614	1.010	1.086	101%
3	02:48:34	-1.001	2.333	0.196	0.334	0.577	0.550	1.000	0.911	101%
x		-0.336	0.850	0.231	0.207	0.747	0.776	1.259	1.356	101%
$\sigma$		0.655	1.563	0.056	0.157	0.187	0.337	0.440	0.626	1%
%RSD		195.000	183.800	24.120	75.860	24.980	43.470	34.970	46.160	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	02:46:18	103%	0.328	0.324	0.249	0.307	0.301	104%	0.258	
2	02:47:27	101%	0.190	0.219	0.141	0.191	0.185	102%	0.150	
3	02:48:34	101%	0.246	0.188	0.175	0.241	0.210	103%	0.161	
x		102%	0.255	0.244	0.188	0.246	0.232	103%	0.190	
$\sigma$		1%	0.069	0.072	0.055	0.058	0.061	1%	0.059	
%RSD		1	27.140	29.390	29.220	23.690	26.260	1	31.240	

PB59234BL PBW01 11/17/2011 02:53:03 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:11	95%	0.129	3.837	0.000	28.850	5.402	3.999	4.352	1.022
2	02:55:19	98%	0.103	3.689	0.000	26.640	6.229	5.448	6.798	0.058
3	02:56:27	97%	0.235	3.718	0.000	31.940	7.377	7.819	6.865	0.081
x		97%	0.156	3.748	0.000	29.140	6.336	5.755	6.005	0.387
$\sigma$		1%	0.070	0.078	0.000	2.663	0.992	1.928	1.432	0.550
%RSD		2	45.070	2.091	0.000	9.136	15.650	33.510	23.850	142.200
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:11	1.132	3.436	0.000	0.000	2.558	-1.885	4.278	98%	0.245
2	02:55:19	0.482	4.794	0.000	0.000	-3.296	17.530	2.648	99%	0.318
3	02:56:27	0.794	3.069	0.000	0.000	-2.198	0.798	0.842	100%	0.224
x		0.803	3.766	0.000	0.000	-0.979	5.481	2.589	99%	0.262
$\sigma$		0.325	0.909	0.000	0.000	3.111	10.520	1.719	1%	0.049
%RSD		40.530	24.130	0.000	0.000	318.000	191.900	66.380	1	18.830
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:11	-0.142	0.031	0.266	-3.582	0.049	-8.018	-2.833	0.002	0.157
2	02:55:19	-0.042	-0.067	-0.211	-9.036	0.051	-10.590	-9.459	0.051	0.049
3	02:56:27	-0.079	0.040	-0.261	-8.467	0.019	-10.220	-4.857	0.056	0.085
x		-0.088	0.001	-0.069	-7.028	0.039	-9.608	-5.716	0.036	0.097
$\sigma$		0.051	0.060	0.291	2.999	0.018	1.389	3.396	0.030	0.055
%RSD		57.810	5105.000	423.400	42.660	45.570	14.460	59.410	83.100	56.380
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:11	0.005	-0.012	-0.417	-0.217	-0.216	0.024	-0.578	-0.217	2.569
2	02:55:19	0.104	0.028	-0.373	-0.074	-0.181	0.022	-0.168	-0.182	-0.728
3	02:56:27	-0.021	-0.033	-0.457	0.008	-0.277	0.002	-1.857	-0.279	0.264
x		0.029	-0.006	-0.416	-0.094	-0.225	0.016	-0.868	-0.226	0.702
$\sigma$		0.066	0.031	0.042	0.114	0.048	0.012	0.881	0.049	1.692
%RSD		225.600	541.300	10.080	120.800	21.520	76.490	101.600	21.570	241.200
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:11	1.335	1.102	1.185	1.152	1.141	-0.003	100%	-2.564	0.028
2	02:55:19	0.937	1.063	0.836	0.950	0.946	0.005	101%	-0.402	0.016
3	02:56:27	0.832	0.729	0.836	1.039	0.741	-0.003	103%	-1.421	0.039
x		1.035	0.965	0.952	1.047	0.942	-0.000	102%	-1.462	0.028
$\sigma$		0.265	0.205	0.201	0.101	0.200	0.005	2%	1.081	0.012
%RSD		25.640	21.300	21.110	9.646	21.230	11760.000	2	73.950	42.300
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	02:54:11	0.998	-2.576	0.007	-0.074	0.196	0.130	-0.019	0.109	102%
2	02:55:19	0.213	-0.410	0.028	-0.037	0.215	-0.036	0.114	0.006	104%
3	02:56:27	0.700	-1.429	0.035	-0.078	0.225	-0.082	0.108	0.089	105%
x		0.637	-1.472	0.023	-0.063	0.212	0.004	0.068	0.068	104%
$\sigma$		0.396	1.084	0.014	0.023	0.015	0.112	0.075	0.054	2%
%RSD		62.260	73.630	61.530	36.130	6.910	2861.000	111.100	80.120	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	02:54:11	102%	0.043	0.029	0.032	0.020	0.025	104%	0.030	
2	02:55:19	104%	0.055	0.038	0.071	0.070	0.058	106%	0.032	
3	02:56:27	106%	0.062	0.052	0.022	0.017	0.033	107%	0.034	
x		104%	0.053	0.040	0.042	0.036	0.039	105%	0.032	
$\sigma$		2%	0.010	0.012	0.026	0.030	0.017	2%	0.002	
%RSD		2	18.330	29.440	61.570	83.840	44.750	2	6.141	

PB59238BL PBW01 11/17/2011 03:00:55 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:03	96%	0.152	1.533	0.000	32.820	2.836	1.784	2.980	-1.250
2	03:03:11	98%	0.116	2.579	0.000	21.690	1.655	-0.488	0.873	-2.048
3	03:04:19	96%	0.125	2.107	0.000	23.670	1.173	0.863	0.774	-1.831
x		97%	0.131	2.073	0.000	26.060	1.888	0.720	1.543	-1.710
$\sigma$		1%	0.019	0.524	0.000	5.939	0.856	1.143	1.246	0.413
%RSD		1	14.300	25.280	0.000	22.790	45.320	158.800	80.790	24.130
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:03	-1.869	-0.770	0.000	0.000	-5.345	-2.476	-5.439	99%	-0.196
2	03:03:11	-0.571	-1.046	0.000	0.000	-9.628	3.575	-4.888	101%	0.001
3	03:04:19	0.117	-3.408	0.000	0.000	-10.520	23.880	-4.819	100%	0.129
x		-0.774	-1.741	0.000	0.000	-8.499	8.328	-5.049	100%	-0.022
$\sigma$		1.008	1.450	0.000	0.000	2.767	13.810	0.340	1%	0.164
%RSD		130.200	83.280	0.000	0.000	32.560	165.800	6.734	1	747.400
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:03	-0.319	-0.045	-0.063	-13.450	-0.038	-15.310	-16.290	-0.002	0.134
2	03:03:11	0.075	-0.062	-0.703	-12.190	-0.054	-17.700	-13.880	-0.025	0.059
3	03:04:19	-0.055	-0.126	-0.515	-10.450	-0.066	-17.600	-16.430	-0.012	0.023
x		-0.100	-0.078	-0.427	-12.030	-0.053	-16.870	-15.530	-0.013	0.072
$\sigma$		0.201	0.043	0.329	1.506	0.014	1.354	1.432	0.012	0.056
%RSD		201.400	55.450	77.050	12.520	26.260	8.026	9.219	89.420	78.310
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:03	0.094	-0.076	-0.474	-0.025	0.367	0.006	-0.993	0.364	0.948
2	03:03:11	-0.063	-0.054	-0.480	-0.165	-0.145	0.020	-2.285	-0.146	-0.859
3	03:04:19	-0.021	-0.117	-0.378	0.147	0.268	-0.042	-2.230	0.264	-3.623
x		0.003	-0.082	-0.444	-0.014	0.164	-0.005	-1.836	0.161	-1.178
$\sigma$		0.081	0.032	0.057	0.157	0.271	0.032	0.731	0.270	2.302
%RSD		2630.000	38.530	12.920	1093.000	165.900	598.300	39.800	167.800	195.400
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:03	0.552	0.555	0.597	0.560	0.621	-0.003	102%	-0.201	-0.005
2	03:03:11	0.694	0.528	0.616	0.501	0.551	-0.003	103%	-1.483	-0.018
3	03:04:19	0.565	0.349	0.501	0.333	0.497	-0.003	103%	-0.532	-0.010
x		0.604	0.477	0.571	0.465	0.556	-0.003	102%	-0.739	-0.011
$\sigma$		0.079	0.112	0.062	0.117	0.062	0.000	1%	0.666	0.007
%RSD		13.030	23.490	10.780	25.270	11.200	0.000	1	90.110	59.390
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:02:03	0.066	-0.209	0.002	-0.029	0.104	-0.001	-0.046	-0.085	104%
2	03:03:11	0.604	-1.491	-0.033	-0.113	0.121	-0.168	-0.071	-0.125	105%
3	03:04:19	0.142	-0.538	-0.022	-0.047	0.118	-0.215	-0.183	-0.170	105%
x		0.270	-0.746	-0.018	-0.063	0.114	-0.128	-0.100	-0.126	104%
$\sigma$		0.291	0.666	0.018	0.044	0.009	0.113	0.073	0.042	0%
%RSD		107.700	89.260	100.600	70.300	8.144	88.020	73.220	33.540	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	03:02:03	105%	-0.008	0.000	-0.020	-0.020	-0.006	106%	-0.006	
2	03:03:11	105%	-0.036	-0.029	-0.046	-0.024	-0.023	107%	-0.014	
3	03:04:19	105%	-0.036	-0.018	-0.048	-0.009	-0.026	106%	-0.016	
x		105%	-0.027	-0.016	-0.038	-0.018	-0.018	106%	-0.012	
$\sigma$		0%	0.016	0.015	0.016	0.007	0.011	0%	0.005	
%RSD		0	59.770	94.770	41.160	41.710	58.160	0	44.360	

PB59234BS LCS01 11/17/2011 03:08:48 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:57	99%	2.087	13.180	0.000	1040.000	1014.000	1022.000	1024.000	39.650
2	03:11:05	97%	2.232	9.011	0.000	1065.000	1037.000	1043.000	1055.000	42.840
3	03:12:13	99%	2.169	10.990	0.000	1048.000	1026.000	1042.000	1049.000	40.740
x		98%	2.162	11.060	0.000	1051.000	1026.000	1036.000	1042.000	41.080
$\sigma$		1%	0.073	2.086	0.000	13.120	11.560	11.450	16.650	1.621
%RSD		1	3.369	18.870	0.000	1.249	1.127	1.106	1.597	3.945
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:57	8.560	-0.571	0.000	0.000	983.800	980.400	1007.000	100%	8.895
2	03:11:05	9.559	2.310	0.000	0.000	1016.000	963.600	1028.000	99%	10.720
3	03:12:13	10.870	3.481	0.000	0.000	1010.000	1072.000	1024.000	99%	8.892
x		9.662	1.740	0.000	0.000	1003.000	1005.000	1020.000	99%	9.501
$\sigma$		1.158	2.085	0.000	0.000	17.130	58.460	11.340	1%	1.052
%RSD		11.990	119.900	0.000	0.000	1.708	5.814	1.112	1	11.070
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:57	9.532	4.059	-0.769	391.500	2.259	399.900	399.900	2.048	2.073
2	03:11:05	9.871	4.230	-0.666	402.900	2.245	412.600	396.900	2.015	2.341
3	03:12:13	9.500	4.111	-0.680	404.200	2.282	414.000	404.400	2.196	2.211
x		9.634	4.133	-0.705	399.600	2.262	408.800	400.400	2.086	2.208
$\sigma$		0.206	0.088	0.056	6.994	0.019	7.745	3.757	0.096	0.134
%RSD		2.134	2.125	7.930	1.750	0.824	1.894	0.938	4.623	6.053
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:57	4.035	4.468	4.125	1.504	8.262	0.066	7.756	8.231	2.264
2	03:11:05	4.127	4.592	3.947	2.723	10.500	-0.097	7.475	10.450	-3.262
3	03:12:13	4.539	4.214	4.694	2.475	9.493	-0.050	8.699	9.457	-0.441
x		4.233	4.425	4.255	2.234	9.418	-0.027	7.977	9.381	-0.480
$\sigma$		0.268	0.193	0.390	0.644	1.120	0.084	0.641	1.113	2.763
%RSD		6.339	4.358	9.174	28.830	11.890	310.800	8.035	11.870	576.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:57	9.973	10.030	9.745	9.873	9.411	0.001	102%	3.160	2.119
2	03:11:05	9.477	10.240	9.814	9.216	9.491	0.001	102%	2.500	2.100
3	03:12:13	10.060	10.340	9.810	9.649	10.110	-0.003	101%	0.681	2.139
x		9.836	10.210	9.790	9.579	9.670	-0.000	102%	2.114	2.119
$\sigma$		0.314	0.158	0.039	0.334	0.381	0.002	1%	1.284	0.020
%RSD		3.193	1.548	0.397	3.491	3.940	4344.000	1	60.740	0.923
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:09:57	-0.175	3.158	2.079	2.209	9.449	4.017	19.490	19.120	105%
2	03:11:05	0.299	2.497	2.319	2.037	9.786	3.744	19.310	20.260	104%
3	03:12:13	0.818	0.673	2.152	2.137	9.275	3.856	19.000	19.790	104%
x		0.314	2.110	2.183	2.128	9.503	3.872	19.270	19.720	104%
$\sigma$		0.497	1.287	0.124	0.086	0.260	0.137	0.244	0.572	0%
%RSD		158.400	61.010	5.656	4.064	2.733	3.541	1.269	2.900	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	03:09:57	105%	2.028	2.072	2.090	2.022	2.091	106%	1.994	
2	03:11:05	104%	2.043	2.111	2.018	1.953	2.093	105%	2.034	
3	03:12:13	104%	2.184	2.124	2.050	2.059	2.112	105%	2.021	
x		104%	2.085	2.103	2.053	2.011	2.099	105%	2.016	
$\sigma$		1%	0.087	0.027	0.036	0.054	0.011	1%	0.020	
%RSD		1	4.149	1.288	1.760	2.677	0.547	1	1.008	

PB59238BS LCS01

11/17/2011 03:16:42 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:17:50	97%	2.474	7.561	0.000	1073.000	1045.000	1056.000	1046.000	42.090
2	03:18:58	96%	1.891	10.440	0.000	1093.000	1058.000	1055.000	1074.000	42.230
3	03:20:06	99%	2.592	10.640	0.000	1071.000	1048.000	1055.000	1045.000	41.740
x		98%	2.319	9.545	0.000	1079.000	1051.000	1055.000	1055.000	42.020
$\sigma$		2%	0.375	1.721	0.000	12.160	6.996	0.321	15.990	0.255
%RSD		2	16.180	18.030	0.000	1.127	0.666	0.030	1.515	0.607
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:17:50	9.201	1.319	0.000	0.000	1019.000	951.900	1026.000	99%	10.600
2	03:18:58	10.190	-2.481	0.000	0.000	1020.000	1058.000	1014.000	100%	9.023
3	03:20:06	9.793	0.514	0.000	0.000	1016.000	1098.000	1005.000	100%	9.306
x		9.727	-0.216	0.000	0.000	1018.000	1036.000	1015.000	100%	9.642
$\sigma$		0.496	2.003	0.000	0.000	1.934	75.420	10.190	0%	0.839
%RSD		5.097	926.600	0.000	0.000	0.190	7.280	1.004	0	8.698
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:17:50	9.797	4.266	-1.099	402.200	2.308	412.800	400.300	2.113	2.241
2	03:18:58	10.240	4.091	-1.463	407.600	2.231	412.800	408.700	2.080	2.322
3	03:20:06	9.790	4.163	-0.861	408.000	2.268	414.700	402.200	2.036	2.419
x		9.944	4.173	-1.141	405.900	2.269	413.400	403.700	2.077	2.327
$\sigma$		0.261	0.088	0.303	3.219	0.039	1.101	4.419	0.039	0.089
%RSD		2.622	2.099	26.540	0.793	1.698	0.266	1.095	1.865	3.830
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:17:50	4.560	4.111	4.318	1.469	8.946	0.086	8.599	8.905	-3.030
2	03:18:58	4.634	4.294	4.093	2.481	9.687	-0.079	10.060	9.664	-2.410
3	03:20:06	4.374	4.356	4.243	2.060	9.412	-0.022	8.596	9.380	-1.326
x		4.523	4.254	4.218	2.003	9.348	-0.005	9.086	9.316	-2.255
$\sigma$		0.134	0.128	0.115	0.508	0.375	0.083	0.846	0.384	0.863
%RSD		2.966	3.003	2.722	25.360	4.006	1743.000	9.306	4.118	38.260
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:17:50	9.923	9.552	10.030	9.793	9.951	-0.003	103%	0.151	2.298
2	03:18:58	10.270	10.220	9.802	9.770	10.330	-0.003	101%	1.171	2.252
3	03:20:06	10.380	10.010	9.671	8.549	9.954	-0.003	102%	-0.209	2.255
x		10.190	9.925	9.836	9.371	10.080	-0.003	102%	0.371	2.268
$\sigma$		0.240	0.340	0.184	0.712	0.221	0.000	1%	0.716	0.026
%RSD		2.350	3.428	1.873	7.595	2.189	0.000	1	193.000	1.140
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:17:50	0.719	0.146	2.176	2.147	10.010	3.869	19.940	19.420	104%
2	03:18:58	0.994	1.163	2.342	1.957	10.040	3.820	20.180	20.080	104%
3	03:20:06	1.188	-0.216	2.317	1.645	9.846	3.710	19.530	20.310	104%
x		0.967	0.364	2.278	1.916	9.964	3.800	19.880	19.940	104%
$\sigma$		0.236	0.715	0.089	0.254	0.103	0.082	0.330	0.465	0%
%RSD		24.380	196.200	3.928	13.230	1.037	2.154	1.661	2.333	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	03:17:50	104%	2.116	2.123	2.061	2.084	2.068	106%	2.046	
2	03:18:58	103%	2.123	2.052	2.056	2.198	2.137	105%	2.052	
3	03:20:06	104%	2.119	2.140	2.096	2.165	2.148	105%	2.067	
x		104%	2.119	2.105	2.071	2.149	2.118	105%	2.055	
$\sigma$		0%	0.003	0.047	0.022	0.059	0.043	0%	0.011	
%RSD		0	0.161	2.239	1.053	2.732	2.032	0	0.529	

C4464-12 MH3BB0 11/17/2011 03:24:36 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:25:44	97%	0.079	15.700	0.000	39140.000	23800.000	24500.000	24610.000	1.755
2	03:26:52	98%	0.046	18.550	0.000	39300.000	23970.000	24690.000	24920.000	-0.569
3	03:28:00	97%	0.061	20.810	0.000	38830.000	23630.000	24270.000	24340.000	-2.765
x		97%	0.062	18.360	0.000	39090.000	23800.000	24480.000	24620.000	-0.526
$\sigma$		1%	0.016	2.561	0.000	238.300	168.300	211.300	287.600	2.261
%RSD		1	26.580	13.950	0.000	0.610	0.707	0.863	1.168	429.600
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:25:44	9652.000	-2.253	0.000	0.000	2076.000	68630.000	68960.000	97%	0.974
2	03:26:52	9721.000	-1.854	0.000	0.000	2079.000	69610.000	69600.000	97%	1.450
3	03:28:00	9503.000	-4.618	0.000	0.000	2020.000	67130.000	67380.000	99%	1.284
x		9625.000	-2.908	0.000	0.000	2058.000	68460.000	68640.000	98%	1.236
$\sigma$		111.500	1.494	0.000	0.000	33.170	1250.000	1141.000	1%	0.242
%RSD		1.158	51.380	0.000	0.000	1.612	1.826	1.662	1	19.560
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:25:44	-0.794	0.544	112.300	264.900	7.948	290.000	624.500	0.161	1.643
2	03:26:52	-2.048	0.754	139.300	268.200	8.066	290.500	612.800	0.134	1.166
3	03:28:00	-0.664	0.788	151.500	252.700	7.807	276.600	593.700	0.142	1.218
x		-1.169	0.695	134.400	262.000	7.940	285.700	610.300	0.145	1.343
$\sigma$		0.764	0.132	20.080	8.142	0.130	7.903	15.520	0.014	0.262
%RSD		65.390	19.030	14.940	3.108	1.635	2.766	2.543	9.438	19.490
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:25:44	1.412	1.446	7.375	0.734	-0.216	0.624	-2.045	-0.215	0.585
2	03:26:52	1.421	1.555	7.245	1.203	0.563	0.698	-1.220	0.563	1.348
3	03:28:00	1.364	1.425	6.245	1.122	-0.302	0.780	-2.864	-0.301	1.180
x		1.399	1.475	6.955	1.020	0.015	0.701	-2.043	0.016	1.038
$\sigma$		0.031	0.070	0.618	0.251	0.477	0.078	0.822	0.476	0.401
%RSD		2.212	4.742	8.890	24.570	3163.000	11.110	40.220	3067.000	38.650
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:25:44	0.559	0.405	0.345	0.359	0.367	0.018	96%	-1.504	0.044
2	03:26:52	0.425	0.229	0.260	0.290	0.304	-0.003	97%	-2.388	0.052
3	03:28:00	0.427	0.133	0.230	0.335	0.274	0.005	98%	-2.252	0.016
x		0.470	0.256	0.278	0.328	0.315	0.007	97%	-2.048	0.037
$\sigma$		0.077	0.138	0.060	0.035	0.047	0.010	1%	0.476	0.019
%RSD		16.340	53.850	21.400	10.650	15.080	150.400	1	23.230	50.800
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:25:44	0.555	-1.522	0.066	-0.057	0.295	-0.060	147.700	144.400	101%
2	03:26:52	0.991	-2.405	0.049	-0.120	0.248	-0.152	146.000	146.100	102%
3	03:28:00	0.869	-2.268	0.037	-0.154	0.220	-0.225	144.900	140.400	103%
x		0.805	-2.065	0.051	-0.110	0.254	-0.146	146.200	143.700	102%
$\sigma$		0.225	0.476	0.015	0.050	0.038	0.083	1.403	2.934	1%
%RSD		27.950	23.030	29.130	44.980	14.920	56.940	0.960	2.043	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	03:25:44	101%	0.193	0.206	0.799	0.761	0.783	100%	1.634	
2	03:26:52	103%	0.093	0.077	0.807	0.731	0.727	101%	1.595	
3	03:28:00	103%	0.016	0.020	0.559	0.760	0.642	103%	1.519	
x		102%	0.101	0.101	0.722	0.750	0.718	101%	1.583	
$\sigma$		1%	0.089	0.095	0.141	0.017	0.071	2%	0.059	
%RSD		1	88.000	94.190	19.540	2.297	9.882	2	3.714	

C4464-13 MH3BB1 11/17/2011 03:32:30 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:33:39	94%	0.121	22.790	0.000	25310.000	23040.000	23480.000	23470.000	0.732
2	03:34:47	97%	-0.040	21.120	0.000	24280.000	22230.000	22900.000	22980.000	-0.497
3	03:35:55	98%	0.089	20.770	0.000	24330.000	22220.000	22570.000	22870.000	-1.706
x		96%	0.057	21.560	0.000	24640.000	22500.000	22980.000	23100.000	-0.491
$\sigma$		2%	0.085	1.081	0.000	583.000	473.700	463.100	318.200	1.219
%RSD		2	149.900	5.016	0.000	2.366	2.106	2.015	1.377	248.500
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:33:39	9741.000	9.344	0.000	0.000	1955.000	66620.000	66700.000	96%	1.289
2	03:34:47	9569.000	7.778	0.000	0.000	1936.000	65310.000	65710.000	97%	1.211
3	03:35:55	9414.000	8.270	0.000	0.000	1908.000	65510.000	65400.000	97%	1.147
x		9575.000	8.464	0.000	0.000	1933.000	65810.000	65940.000	97%	1.216
$\sigma$		163.600	0.801	0.000	0.000	23.590	704.800	682.000	0%	0.071
%RSD		1.708	9.461	0.000	0.000	1.221	1.071	1.034	0	5.869
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:33:39	-0.367	0.773	100.600	-0.596	3.502	23.260	357.600	0.596	1.397
2	03:34:47	0.239	0.688	105.900	-1.538	3.434	22.420	342.900	0.559	1.258
3	03:35:55	0.356	0.629	108.500	-2.285	3.499	19.690	338.500	0.486	0.998
x		0.076	0.697	105.000	-1.473	3.478	21.790	346.300	0.547	1.218
$\sigma$		0.388	0.072	4.001	0.846	0.039	1.870	9.994	0.056	0.203
%RSD		510.400	10.350	3.810	57.470	1.111	8.584	2.886	10.190	16.630
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:33:39	1.357	1.439	12.680	0.604	-0.002	0.559	-2.189	-0.002	-0.910
2	03:34:47	1.458	1.500	12.790	0.841	-0.184	0.577	-2.411	-0.184	1.951
3	03:35:55	1.362	1.411	12.530	0.596	0.055	0.591	-3.131	0.056	-2.971
x		1.392	1.450	12.670	0.680	-0.044	0.576	-2.577	-0.043	-0.643
$\sigma$		0.057	0.045	0.132	0.139	0.125	0.016	0.492	0.125	2.472
%RSD		4.106	3.132	1.044	20.470	286.900	2.798	19.100	290.400	384.300
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:33:39	0.487	0.383	0.282	0.315	0.300	-0.003	97%	-1.880	-0.000
2	03:34:47	0.220	0.256	0.267	0.228	0.300	-0.003	97%	-1.934	0.004
3	03:35:55	0.350	0.227	0.142	0.106	0.188	-0.003	96%	2.022	-0.007
x		0.352	0.289	0.230	0.216	0.263	-0.003	97%	-0.597	-0.001
$\sigma$		0.134	0.083	0.077	0.105	0.065	0.000	1%	2.269	0.005
%RSD		37.940	28.840	33.240	48.500	24.670	0.000	1	379.900	437.900
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:33:39	0.778	-1.896	0.005	-0.133	0.167	-0.006	349.600	348.100	101%
2	03:34:47	0.736	-1.952	0.011	-0.089	0.137	-0.228	336.900	345.100	103%
3	03:35:55	-0.795	2.003	0.005	0.057	0.114	-0.257	347.700	341.200	102%
x		0.240	-0.615	0.007	-0.055	0.139	-0.164	344.800	344.800	102%
$\sigma$		0.896	2.267	0.004	0.099	0.026	0.137	6.855	3.472	1%
%RSD		373.900	368.600	53.040	180.200	18.980	83.810	1.988	1.007	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	03:33:39	101%	-0.009	-0.007	0.689	0.682	0.668	101%	1.898	
2	03:34:47	102%	-0.021	-0.026	0.721	0.644	0.682	102%	1.950	
3	03:35:55	102%	-0.032	-0.044	0.631	0.670	0.656	101%	1.876	
x		102%	-0.021	-0.026	0.680	0.665	0.669	102%	1.908	
$\sigma$		1%	0.011	0.019	0.045	0.019	0.013	1%	0.038	
%RSD		1	54.170	71.350	6.675	2.892	1.899	1	1.982	

C4464-14 MH3BB2 11/17/2011 03:40:25 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:41:33	96%	0.052	21.970	0.000	34630.000	23350.000	23900.000	23990.000	-0.762
2	03:42:41	94%	0.076	22.540	0.000	35300.000	23890.000	24290.000	24420.000	-0.958
3	03:43:49	93%	0.033	24.160	0.000	35760.000	24150.000	24670.000	24580.000	-1.667
x		94%	0.054	22.890	0.000	35230.000	23800.000	24290.000	24330.000	-1.129
$\sigma$		2%	0.021	1.133	0.000	565.200	407.500	388.400	307.800	0.476
%RSD		2	39.870	4.951	0.000	1.604	1.712	1.599	1.265	42.170
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:41:33	9668.000	4.157	0.000	0.000	1995.000	67390.000	67510.000	96%	1.178
2	03:42:41	9824.000	-0.740	0.000	0.000	2021.000	68370.000	68230.000	95%	0.997
3	03:43:49	9935.000	1.575	0.000	0.000	2044.000	69150.000	69450.000	94%	1.027
x		9809.000	1.664	0.000	0.000	2020.000	68300.000	68400.000	95%	1.067
$\sigma$		134.000	2.450	0.000	0.000	24.420	884.300	982.900	1%	0.097
%RSD		1.367	147.200	0.000	0.000	1.209	1.295	1.437	1	9.053
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:41:33	0.193	0.547	102.700	596.100	11.810	643.700	943.700	0.282	1.151
2	03:42:41	-0.574	0.433	112.500	612.600	12.030	651.300	955.800	0.296	1.136
3	03:43:49	-0.596	0.535	118.400	624.800	12.290	663.200	973.100	0.320	1.131
x		-0.326	0.505	111.200	611.100	12.040	652.700	957.500	0.299	1.139
$\sigma$		0.449	0.063	7.916	14.400	0.239	9.793	14.770	0.019	0.010
%RSD		138.000	12.400	7.119	2.356	1.988	1.500	1.543	6.421	0.919
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:41:33	1.450	1.512	14.420	1.061	-0.253	0.512	-1.769	-0.252	1.827
2	03:42:41	1.366	1.498	14.300	0.163	0.104	0.677	-1.065	0.105	0.747
3	03:43:49	1.598	1.342	15.030	1.495	0.082	0.543	-2.296	0.083	-0.050
x		1.471	1.451	14.580	0.906	-0.022	0.578	-1.710	-0.021	0.842
$\sigma$		0.118	0.094	0.389	0.679	0.200	0.088	0.617	0.200	0.942
%RSD		7.984	6.499	2.668	74.970	912.800	15.230	36.100	936.700	111.900
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:41:33	0.284	0.289	0.274	0.266	0.165	-0.003	96%	-0.562	-0.009
2	03:42:41	0.196	0.228	0.167	0.186	0.220	0.002	94%	-0.905	-0.004
3	03:43:49	0.342	0.252	0.145	0.071	0.127	-0.003	94%	-0.495	-0.006
x		0.274	0.256	0.195	0.174	0.171	-0.001	95%	-0.654	-0.006
$\sigma$		0.073	0.031	0.069	0.098	0.046	0.002	1%	0.220	0.003
%RSD		26.730	12.010	35.230	56.320	27.130	193.800	1	33.640	42.830
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:41:33	0.226	-0.582	0.012	0.013	0.225	-0.117	189.700	191.300	101%
2	03:42:41	0.371	-0.924	-0.001	-0.074	0.219	-0.187	195.400	192.100	100%
3	03:43:49	0.200	-0.516	0.032	-0.043	0.131	-0.203	192.600	195.400	100%
x		0.265	-0.674	0.014	-0.034	0.192	-0.169	192.600	192.900	100%
$\sigma$		0.092	0.219	0.017	0.044	0.053	0.046	2.813	2.157	1%
%RSD		34.700	32.510	116.900	128.000	27.450	27.140	1.461	1.118	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	03:41:33	101%	-0.026	-0.021	0.569	0.561	0.609	102%	1.692	
2	03:42:41	100%	-0.028	-0.043	0.532	0.540	0.551	101%	1.732	
3	03:43:49	100%	-0.042	-0.045	0.553	0.639	0.577	100%	1.728	
x		101%	-0.032	-0.037	0.551	0.580	0.579	101%	1.717	
$\sigma$		1%	0.009	0.013	0.019	0.052	0.029	1%	0.022	
%RSD		1	28.000	36.150	3.386	8.960	4.953	1	1.287	

C4464-12X25 MH3BB0 11/17/2011 03:48:19 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:49:27	97%	0.033	0.692	0.000	1619.000	996.300	986.300	999.000	-4.007
2	03:50:35	96%	0.051	2.389	0.000	1650.000	1004.000	997.800	1010.000	-3.708
3	03:51:43	95%	-0.048	2.147	0.000	1646.000	997.100	993.300	989.500	-4.559
x		96%	0.012	1.742	0.000	1638.000	999.000	992.500	999.600	-4.091
$\sigma$		1%	0.053	0.918	0.000	16.740	4.038	5.792	10.370	0.432
%RSD		1	441.200	52.700	0.000	1.022	0.404	0.584	1.037	10.560
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:49:27	382.600	-5.603	0.000	0.000	87.820	2690.000	2796.000	95%	-0.133
2	03:50:35	379.500	-0.458	0.000	0.000	90.940	2883.000	2822.000	95%	0.064
3	03:51:43	374.300	4.931	0.000	0.000	86.410	2839.000	2732.000	97%	-0.205
x		378.800	-0.377	0.000	0.000	88.390	2804.000	2783.000	95%	-0.091
$\sigma$		4.202	5.267	0.000	0.000	2.319	101.500	46.250	1%	0.139
%RSD		1.109	1398.000	0.000	0.000	2.624	3.620	1.662	1	152.700
Run	Time	51V	52Cr	53Cr O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:49:27	0.579	0.002	24.980	-5.140	0.251	-0.728	2.480	-0.035	0.008
2	03:50:35	0.005	0.054	24.020	-2.152	0.277	-0.086	5.264	-0.033	0.035
3	03:51:43	-0.044	-0.020	21.570	-10.940	0.260	-2.785	8.319	-0.043	0.004
x		0.180	0.012	23.530	-6.079	0.263	-1.200	5.354	-0.037	0.016
$\sigma$		0.346	0.038	1.760	4.470	0.013	1.410	2.920	0.005	0.017
%RSD		192.700	308.100	7.481	73.540	4.921	117.500	54.540	14.000	108.100
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:49:27	-0.028	-0.085	-0.032	-0.075	-0.386	0.140	-2.413	-0.387	1.914
2	03:50:35	0.011	-0.029	0.070	0.271	-0.429	0.078	-1.241	-0.430	-0.624
3	03:51:43	0.001	-0.049	0.030	0.209	-0.082	0.077	-1.477	-0.085	0.324
x		-0.005	-0.054	0.023	0.135	-0.299	0.098	-1.710	-0.300	0.538
$\sigma$		0.020	0.029	0.051	0.185	0.189	0.036	0.620	0.188	1.282
%RSD		381.900	52.650	223.500	136.600	63.200	36.270	36.250	62.620	238.400
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:49:27	0.023	0.090	0.040	0.223	0.033	-0.003	99%	-0.922	-0.042
2	03:50:35	0.105	0.125	0.109	0.071	0.035	0.001	98%	-2.751	-0.051
3	03:51:43	0.121	0.035	0.037	-0.006	0.010	0.001	100%	-0.918	-0.051
x		0.083	0.083	0.062	0.096	0.026	0.000	99%	-1.530	-0.048
$\sigma$		0.052	0.045	0.041	0.117	0.014	0.002	1%	1.058	0.005
%RSD		63.080	54.300	65.910	121.000	52.960	6588.000	1	69.120	10.340
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:49:27	0.307	-0.932	-0.036	-0.057	0.014	-0.243	5.718	5.764	101%
2	03:50:35	1.142	-2.765	-0.052	-0.197	-0.017	-0.312	5.595	5.586	101%
3	03:51:43	0.305	-0.927	-0.045	-0.095	-0.026	-0.357	5.455	5.854	102%
x		0.585	-1.541	-0.045	-0.116	-0.010	-0.304	5.589	5.735	102%
$\sigma$		0.483	1.060	0.008	0.072	0.021	0.057	0.132	0.136	1%
%RSD		82.540	68.760	17.490	62.240	213.300	18.850	2.355	2.378	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	03:49:27	101%	-0.067	-0.071	-0.014	0.001	-0.007	104%	0.030	
2	03:50:35	101%	-0.075	-0.077	-0.008	-0.019	-0.012	103%	0.030	
3	03:51:43	103%	-0.063	-0.076	-0.048	-0.024	-0.028	104%	0.025	
x		102%	-0.068	-0.075	-0.023	-0.014	-0.016	104%	0.028	
$\sigma$		1%	0.006	0.003	0.021	0.013	0.011	1%	0.003	
%RSD		1	8.385	4.314	90.250	94.840	73.150	1	11.450	

## C4464-13X25 MH3BB1 11/17/2011 03:56:14 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:57:22	96%	0.096	2.393	0.000	1036.000	941.500	943.300	927.800	-3.140
2	03:58:30	95%	0.055	2.703	0.000	1051.000	938.700	936.600	925.200	-1.889
3	03:59:39	97%	0.120	0.685	0.000	1008.000	911.900	896.300	912.000	-3.645
x		96%	0.090	1.927	0.000	1031.000	930.700	925.400	921.700	-2.891
$\sigma$		1%	0.033	1.087	0.000	22.000	16.320	25.420	8.455	0.904
%RSD		1	36.470	56.380	0.000	2.133	1.754	2.747	0.917	31.270
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:57:22	373.900	-3.498	0.000	0.000	79.210	2660.000	2708.000	97%	0.318
2	03:58:30	384.200	0.365	0.000	0.000	86.220	2751.000	2720.000	96%	-0.173
3	03:59:39	365.600	-0.728	0.000	0.000	70.990	2647.000	2605.000	99%	-0.069
x		374.600	-1.287	0.000	0.000	78.810	2686.000	2678.000	97%	0.025
$\sigma$		9.335	1.992	0.000	0.000	7.623	56.450	63.470	1%	0.259
%RSD		2.492	154.800	0.000	0.000	9.673	2.102	2.370	1	1029.000
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:57:22	0.161	0.036	13.400	-15.700	0.086	-10.360	3.871	0.006	0.035
2	03:58:30	-0.231	-0.001	13.280	-19.100	0.048	-10.350	-3.035	0.015	0.139
3	03:59:39	-0.888	-0.111	13.400	-16.160	0.074	-11.510	-2.791	-0.005	0.051
x		-0.319	-0.025	13.360	-16.990	0.069	-10.740	-0.652	0.005	0.075
$\sigma$		0.530	0.076	0.067	1.842	0.020	0.664	3.918	0.010	0.056
%RSD		165.900	303.700	0.499	10.840	28.650	6.187	601.300	181.000	74.750
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:57:22	-0.003	-0.096	-0.013	-0.240	-0.411	0.115	-1.227	-0.412	-3.136
2	03:58:30	-0.015	0.024	-0.021	0.074	0.285	0.049	-1.860	0.280	-0.531
3	03:59:39	-0.059	-0.107	0.195	0.031	-0.765	0.050	-1.818	-0.764	-0.713
x		-0.025	-0.060	0.054	-0.045	-0.297	0.072	-1.635	-0.299	-1.460
$\sigma$		0.029	0.073	0.122	0.171	0.534	0.038	0.354	0.531	1.454
%RSD		115.500	122.200	227.700	380.000	179.600	52.600	21.650	178.000	99.620
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:57:22	0.232	0.073	0.090	0.096	0.080	-0.003	100%	1.162	-0.045
2	03:58:30	0.098	0.080	0.031	0.015	0.030	0.001	100%	-0.263	-0.036
3	03:59:39	0.104	-0.031	0.050	-0.009	0.003	-0.003	102%	0.018	-0.037
x		0.145	0.041	0.057	0.034	0.038	-0.001	100%	0.306	-0.039
$\sigma$		0.076	0.062	0.030	0.055	0.040	0.002	1%	0.755	0.005
%RSD		52.280	153.900	52.720	162.400	105.000	174.200	1	246.600	12.330
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	03:57:22	-0.505	1.152	-0.024	0.050	0.011	-0.216	12.560	13.460	103%
2	03:58:30	0.096	-0.278	-0.039	-0.051	-0.016	-0.305	13.830	12.940	105%
3	03:59:39	-0.026	0.010	-0.026	-0.017	-0.034	-0.368	13.040	13.130	104%
x		-0.145	0.295	-0.030	-0.006	-0.013	-0.296	13.140	13.170	104%
$\sigma$		0.318	0.756	0.008	0.052	0.023	0.076	0.640	0.263	1%
%RSD		218.700	256.800	27.840	852.000	177.400	25.670	4.871	1.999	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	03:57:22	103%	-0.057	-0.066	-0.009	-0.009	-0.010	105%	0.047	
2	03:58:30	104%	-0.060	-0.058	0.003	0.018	0.006	105%	0.050	
3	03:59:39	105%	-0.048	-0.055	-0.001	-0.016	-0.002	107%	0.040	
x		104%	-0.055	-0.060	-0.002	-0.002	-0.002	106%	0.046	
$\sigma$		1%	0.006	0.006	0.006	0.018	0.008	1%	0.005	
%RSD		1	11.470	9.333	280.700	888.700	366.300	1	11.980	

C4464-14X25 MH3BB2

11/17/2011 04:04:10 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:05:18	97%	0.049	1.805	0.000	1456.000	975.500	982.700	963.800	-1.183
2	04:06:26	96%	-0.037	0.987	0.000	1503.000	1005.000	999.900	990.400	-0.793
3	04:07:34	96%	0.036	1.264	0.000	1480.000	984.200	979.300	977.600	0.562
x		97%	0.016	1.352	0.000	1480.000	988.100	987.300	977.200	-0.471
$\sigma$		0%	0.046	0.416	0.000	23.170	14.920	11.060	13.330	0.916
%RSD		0	293.700	30.800	0.000	1.566	1.510	1.120	1.364	194.300
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:05:18	379.200	2.646	0.000	0.000	85.180	2740.000	2778.000	96%	-0.107
2	04:06:26	399.500	1.360	0.000	0.000	83.530	2905.000	2852.000	96%	0.327
3	04:07:34	394.800	-2.265	0.000	0.000	86.310	2797.000	2770.000	97%	0.042
x		391.100	0.580	0.000	0.000	85.010	2814.000	2800.000	96%	0.087
$\sigma$		10.630	2.547	0.000	0.000	1.400	83.560	45.220	0%	0.220
%RSD		2.717	438.900	0.000	0.000	1.646	2.969	1.615	0	253.400
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:05:18	0.132	-0.071	9.680	17.200	0.435	17.020	24.130	0.012	0.021
2	04:06:26	-0.426	-0.020	10.180	14.190	0.570	19.660	37.100	-0.020	0.077
3	04:07:34	-0.143	-0.043	9.324	15.090	0.611	22.340	26.810	-0.005	-0.020
x		-0.146	-0.045	9.729	15.490	0.539	19.670	29.350	-0.004	0.026
$\sigma$		0.279	0.025	0.432	1.543	0.092	2.661	6.847	0.016	0.049
%RSD		191.900	56.360	4.443	9.961	17.030	13.530	23.330	363.300	189.200
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:05:18	-0.049	-0.048	0.250	-0.040	-0.078	0.066	-3.027	-0.081	-2.254
2	04:06:26	0.006	0.072	0.407	-0.001	0.207	0.052	-1.983	0.203	-1.360
3	04:07:34	0.055	0.010	0.234	0.034	0.017	0.040	-1.926	0.014	-2.292
x		0.004	0.011	0.297	-0.002	0.049	0.053	-2.312	0.045	-1.969
$\sigma$		0.052	0.060	0.095	0.037	0.145	0.013	0.620	0.145	0.527
%RSD		1423.000	528.800	32.100	1617.000	298.600	24.770	26.800	319.000	26.780
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:05:18	0.098	0.137	0.060	0.177	0.057	-0.003	100%	-1.588	-0.015
2	04:06:26	0.190	-0.015	0.062	-0.056	0.059	-0.003	99%	2.447	-0.004
3	04:07:34	-0.025	0.021	0.059	0.084	0.009	-0.003	100%	-0.635	-0.017
x		0.087	0.048	0.060	0.069	0.042	-0.003	100%	0.074	-0.012
$\sigma$		0.108	0.079	0.001	0.117	0.028	0.000	1%	2.109	0.007
%RSD		123.400	165.400	2.060	171.000	67.610	0.000	1	2834.000	58.810
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:05:18	0.651	-1.599	-0.032	-0.080	0.018	-0.207	8.206	7.467	103%
2	04:06:26	-1.111	2.443	-0.006	0.076	-0.004	-0.319	7.464	7.574	102%
3	04:07:34	0.250	-0.646	-0.013	-0.060	0.028	-0.307	7.771	7.457	103%
x		-0.070	0.066	-0.017	-0.021	0.014	-0.278	7.814	7.499	103%
$\sigma$		0.924	2.113	0.014	0.085	0.017	0.062	0.373	0.065	1%
%RSD		1320.000	3213.000	81.690	401.500	119.500	22.180	4.769	0.860	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	04:05:18	104%	-0.041	-0.039	-0.005	-0.001	0.009	106%	0.049	
2	04:06:26	103%	-0.045	-0.041	0.022	0.018	0.029	104%	0.051	
3	04:07:34	104%	-0.026	-0.028	0.048	0.048	0.036	107%	0.052	
x		104%	-0.037	-0.036	0.022	0.022	0.025	105%	0.051	
$\sigma$		1%	0.010	0.007	0.027	0.025	0.014	2%	0.002	
%RSD		1	26.330	20.370	122.600	113.600	56.280	1	3.269	

CCV45 11/17/2011 04:12:04 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:13:12	95%	494.900	494.900	0.000	50300.000	49220.000	50150.000	49380.000	9363.000
2	04:14:20	90%	530.000	536.500	0.000	53390.000	52110.000	52580.000	52230.000	9926.000
3	04:15:29	94%	505.800	518.100	0.000	52050.000	50630.000	51850.000	50890.000	9661.000
x		93%	510.200	516.500	0.000	51910.000	50650.000	51530.000	50830.000	9650.000
$\sigma$		2%	17.980	20.830	0.000	1551.000	1444.000	1247.000	1427.000	281.900
%RSD		3	3.523	4.033	0.000	2.988	2.850	2.419	2.808	2.921
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:13:12	494.800	9706.000	0.000	0.000	24640.000	49880.000	49740.000	95%	487.800
2	04:14:20	525.300	10200.000	0.000	0.000	25950.000	52480.000	52410.000	93%	507.700
3	04:15:29	508.900	10050.000	0.000	0.000	25420.000	51280.000	51780.000	93%	507.300
x		509.600	9984.000	0.000	0.000	25340.000	51210.000	51310.000	94%	500.900
$\sigma$		15.270	252.000	0.000	0.000	659.000	1302.000	1396.000	1%	11.370
%RSD		2.996	2.524	0.000	0.000	2.601	2.542	2.720	1	2.270
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:13:12	490.000	492.900	4.834	25230.000	990.700	24790.000	24620.000	488.600	492.400
2	04:14:20	513.300	516.700	5.570	26460.000	1044.000	25920.000	25740.000	511.900	512.200
3	04:15:29	512.300	514.200	-0.211	26420.000	1039.000	25770.000	25730.000	512.500	512.400
x		505.200	507.900	3.398	26040.000	1025.000	25490.000	25370.000	504.300	505.700
$\sigma$		13.180	13.040	3.147	700.400	29.370	614.100	647.800	13.610	11.520
%RSD		2.610	2.568	92.620	2.690	2.866	2.409	2.554	2.699	2.278
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:13:12	985.200	986.300	993.000	486.700	491.700	-0.095	487.100	490.200	-1.145
2	04:14:20	1036.000	1037.000	1044.000	508.700	505.100	-0.044	514.600	503.100	-1.006
3	04:15:29	1028.000	1021.000	1045.000	512.000	523.200	-0.798	509.400	521.900	-0.670
x		1017.000	1015.000	1027.000	502.500	506.700	-0.312	503.700	505.100	-0.940
$\sigma$		27.470	26.070	29.810	13.730	15.830	0.422	14.600	15.960	0.244
%RSD		2.702	2.569	2.901	2.733	3.124	135.000	2.898	3.160	25.970
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:13:12	482.600	485.400	484.200	485.000	487.200	0.001	96%	499.200	496.900
2	04:14:20	505.600	509.800	505.800	508.200	509.100	-0.003	95%	515.900	515.000
3	04:15:29	512.300	511.700	505.300	507.700	509.700	-0.003	94%	517.400	515.300
x		500.200	502.300	498.400	500.300	502.000	-0.001	95%	510.800	509.100
$\sigma$		15.570	14.670	12.330	13.260	12.830	0.002	1%	10.080	10.520
%RSD		3.113	2.921	2.474	2.650	2.556	186.500	1	1.973	2.067
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:13:12	11.850	499.200	496.500	498.000	493.300	496.300	2443.000	2447.000	103%
2	04:14:20	11.230	516.200	520.100	521.200	516.200	514.800	2556.000	2563.000	100%
3	04:15:29	11.530	517.200	518.900	522.500	518.900	517.000	2553.000	2551.000	102%
x		11.540	510.900	511.800	513.900	509.400	509.300	2518.000	2520.000	102%
$\sigma$		0.311	10.130	13.270	13.790	14.070	11.380	64.520	63.650	2%
%RSD		2.696	1.984	2.592	2.683	2.762	2.234	2.563	2.525	2
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	04:13:12	103%	496.300	495.800	494.200	495.500	494.800	102%	492.900	
2	04:14:20	101%	515.400	518.700	517.800	517.900	518.200	101%	515.500	
3	04:15:29	102%	512.600	512.600	511.900	513.200	512.200	101%	512.200	
x		102%	508.100	509.000	507.900	508.800	508.400	101%	506.900	
$\sigma$		1%	10.330	11.870	12.290	11.810	12.110	1%	12.200	
%RSD		1	2.033	2.332	2.419	2.320	2.383	1	2.406	

CCB45 11/17/2011 04:19:57 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:21:05	96%	0.419	6.864	0.000	55.790	24.050	23.550	20.680	5.138
2	04:22:13	100%	0.220	3.312	0.000	30.910	13.680	12.400	14.150	1.862
3	04:23:21	94%	0.209	3.325	0.000	55.300	15.670	13.550	14.650	2.765
x		97%	0.283	4.500	0.000	47.330	17.800	16.500	16.490	3.255
$\sigma$		3%	0.118	2.047	0.000	14.230	5.506	6.132	3.631	1.692
%RSD		3	41.730	45.480	0.000	30.050	30.930	37.160	22.020	51.990
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:21:05	0.659	2.387	0.000	0.000	7.436	13.190	21.480	98%	0.302
2	04:22:13	-0.589	2.154	0.000	0.000	-2.350	13.190	17.370	98%	0.121
3	04:23:21	-0.850	4.841	0.000	0.000	8.317	28.570	11.410	98%	0.030
x		-0.260	3.128	0.000	0.000	4.468	18.320	16.750	98%	0.151
$\sigma$		0.806	1.489	0.000	0.000	5.921	8.878	5.061	0%	0.139
%RSD		310.100	47.600	0.000	0.000	132.500	48.470	30.210	0	91.870
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:21:05	-0.029	0.205	2.491	6.890	0.401	2.428	9.076	0.220	0.270
2	04:22:13	0.075	0.133	2.517	-2.305	0.211	-3.849	4.980	0.129	0.310
3	04:23:21	-0.229	0.188	2.599	-0.386	0.195	-4.511	2.022	0.130	0.165
x		-0.061	0.176	2.536	1.400	0.269	-1.977	5.360	0.159	0.248
$\sigma$		0.155	0.038	0.057	4.850	0.115	3.829	3.542	0.052	0.075
%RSD		253.100	21.620	2.229	346.600	42.780	193.700	66.090	32.720	30.330
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:21:05	0.454	0.232	-0.036	0.554	1.395	-0.047	-1.639	1.384	-2.134
2	04:22:13	0.171	0.201	-0.207	-0.108	-0.033	0.040	-2.769	-0.036	-3.811
3	04:23:21	0.186	0.132	-0.213	0.086	0.161	0.018	-2.416	0.159	-2.307
x		0.270	0.188	-0.152	0.177	0.508	0.004	-2.275	0.502	-2.751
$\sigma$		0.159	0.051	0.100	0.341	0.774	0.045	0.578	0.770	0.923
%RSD		58.980	27.220	65.980	192.000	152.600	1148.000	25.410	153.300	33.540
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:21:05	2.170	1.969	2.150	1.822	1.953	-0.003	102%	-1.751	0.213
2	04:22:13	1.583	1.624	1.300	1.617	1.440	0.001	102%	-0.654	0.168
3	04:23:21	1.177	1.196	1.325	1.495	1.198	-0.003	100%	1.264	0.121
x		1.643	1.596	1.592	1.645	1.530	-0.001	101%	-0.380	0.167
$\sigma$		0.499	0.387	0.484	0.165	0.386	0.002	1%	1.526	0.046
%RSD		30.350	24.240	30.380	10.030	25.210	167.500	1	401.400	27.530
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:21:05	0.781	-1.764	0.257	0.110	0.939	1.073	1.745	1.477	105%
2	04:22:13	0.381	-0.664	0.140	0.074	0.635	0.597	0.892	0.865	105%
3	04:23:21	-0.548	1.253	0.130	0.132	0.430	0.402	0.863	0.655	104%
x		0.205	-0.392	0.176	0.105	0.668	0.691	1.166	0.999	105%
$\sigma$		0.681	1.527	0.071	0.029	0.256	0.346	0.501	0.427	1%
%RSD		333.000	389.800	40.370	27.790	38.390	50.030	42.940	42.760	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	04:21:05	106%	0.296	0.255	0.180	0.226	0.220	108%	0.236	
2	04:22:13	105%	0.158	0.158	0.115	0.131	0.116	108%	0.117	
3	04:23:21	105%	0.180	0.151	0.129	0.113	0.118	106%	0.123	
x		105%	0.212	0.188	0.141	0.157	0.151	108%	0.159	
$\sigma$		1%	0.074	0.058	0.034	0.061	0.060	1%	0.067	
%RSD		1	35.110	30.940	24.250	38.760	39.500	1	42.520	

C4464-15 MH3BB3 11/17/2011 04:27:49 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:28:58	96%	0.097	20.080	0.000	17380.000	20640.000	21050.000	21110.000	4.122
2	04:30:05	96%	0.111	16.380	0.000	17570.000	20870.000	21290.000	21420.000	2.931
3	04:31:13	96%	0.126	15.570	0.000	17500.000	20860.000	21150.000	21130.000	2.015
x		96%	0.112	17.340	0.000	17480.000	20790.000	21160.000	21220.000	3.022
$\sigma$		0%	0.015	2.405	0.000	93.690	126.300	120.600	173.500	1.056
%RSD		0	13.020	13.870	0.000	0.536	0.608	0.570	0.818	34.950
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:28:58	9625.000	16.660	0.000	0.000	1996.000	61120.000	61250.000	98%	1.233
2	04:30:05	9694.000	16.970	0.000	0.000	2020.000	61090.000	61720.000	98%	1.661
3	04:31:13	9713.000	16.350	0.000	0.000	1984.000	60860.000	61050.000	99%	1.082
x		9677.000	16.660	0.000	0.000	2000.000	61020.000	61340.000	98%	1.326
$\sigma$		46.180	0.305	0.000	0.000	18.410	140.500	343.500	1%	0.300
%RSD		0.477	1.832	0.000	0.000	0.920	0.230	0.560	1	22.660
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:28:58	-0.125	0.610	75.320	23.860	3.408	38.250	336.300	0.501	1.205
2	04:30:05	-0.732	0.866	88.450	24.280	3.516	38.030	334.300	0.414	1.254
3	04:31:13	0.322	0.945	96.600	18.930	3.423	35.280	329.200	0.407	1.253
x		-0.178	0.807	86.790	22.360	3.449	37.190	333.300	0.440	1.238
$\sigma$		0.529	0.175	10.740	2.977	0.059	1.653	3.664	0.053	0.028
%RSD		297.200	21.710	12.370	13.320	1.704	4.444	1.099	11.960	2.282
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:28:58	2.061	2.405	40.470	1.508	0.518	0.371	-2.601	0.517	-3.904
2	04:30:05	2.150	2.260	39.810	1.937	1.357	0.429	-1.855	1.353	-0.779
3	04:31:13	2.335	2.189	39.190	2.203	0.206	0.453	-2.370	0.205	-0.264
x		2.182	2.285	39.820	1.882	0.693	0.418	-2.275	0.692	-1.649
$\sigma$		0.140	0.110	0.639	0.351	0.595	0.042	0.382	0.593	1.970
%RSD		6.409	4.833	1.605	18.630	85.870	10.080	16.780	85.750	119.500
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:28:58	1.132	0.893	0.945	0.717	0.850	-0.003	97%	-0.132	0.091
2	04:30:05	1.297	0.854	0.704	0.737	0.884	-0.003	99%	-0.811	0.059
3	04:31:13	0.987	0.658	0.659	0.538	0.627	-0.003	99%	0.159	0.043
x		1.138	0.801	0.769	0.664	0.787	-0.003	98%	-0.262	0.064
$\sigma$		0.155	0.126	0.154	0.109	0.139	0.000	1%	0.498	0.024
%RSD		13.630	15.730	20.020	16.450	17.700	0.000	1	190.400	37.620
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:28:58	0.044	-0.150	0.119	0.191	0.408	0.122	519.500	520.400	103%
2	04:30:05	0.263	-0.827	0.068	0.006	0.392	0.096	525.900	519.300	103%
3	04:31:13	-0.144	0.142	0.048	0.074	0.314	-0.062	521.500	520.200	104%
x		0.054	-0.279	0.078	0.090	0.371	0.052	522.300	520.000	103%
$\sigma$		0.204	0.497	0.037	0.093	0.050	0.099	3.240	0.542	1%
%RSD		374.900	178.300	47.070	103.200	13.550	191.300	0.620	0.104	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	04:28:58	102%	0.179	0.174	0.829	0.878	0.846	103%	2.671	
2	04:30:05	104%	0.082	0.097	0.877	0.849	0.831	104%	2.620	
3	04:31:13	104%	0.075	0.051	0.842	0.862	0.825	105%	2.602	
x		104%	0.112	0.107	0.849	0.863	0.834	104%	2.631	
$\sigma$		1%	0.058	0.062	0.025	0.015	0.011	1%	0.036	
%RSD		1	51.940	57.940	2.939	1.711	1.262	1	1.361	

C4464-17 MH3BB4

11/17/2011 04:35:42 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Ar
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:50	96%	0.153	20.490	0.000	17330.000	19870.000	20190.000	20050.000	1.074
2	04:37:58	95%	0.261	22.420	0.000	17680.000	20180.000	20540.000	20480.000	-0.902
3	04:39:06	97%	0.006	22.970	0.000	17650.000	20200.000	20530.000	20380.000	-1.519
x		96%	0.140	21.960	0.000	17550.000	20080.000	20420.000	20300.000	-0.449
$\sigma$		1%	0.128	1.302	0.000	193.900	180.200	198.400	221.600	1.355
%RSD		1	91.390	5.931	0.000	1.105	0.897	0.972	1.091	301.800
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:50	9191.000	9.869	0.000	0.000	1785.000	58110.000	58330.000	98%	1.077
2	04:37:58	9356.000	6.655	0.000	0.000	1836.000	59490.000	59530.000	95%	1.153
3	04:39:06	9234.000	9.833	0.000	0.000	1836.000	60420.000	60410.000	95%	1.071
x		9260.000	8.786	0.000	0.000	1819.000	59340.000	59420.000	96%	1.101
$\sigma$		86.080	1.845	0.000	0.000	29.440	1160.000	1042.000	1%	0.046
%RSD		0.930	21.000	0.000	0.000	1.619	1.955	1.754	1	4.150
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:50	-1.442	0.845	129.000	0.916	3.946	22.720	293.100	1.029	1.459
2	04:37:58	-1.333	0.802	145.000	-2.348	3.896	19.290	298.600	1.019	1.052
3	04:39:06	-0.692	0.745	153.100	-3.355	3.939	17.280	287.600	1.061	1.119
x		-1.156	0.797	142.400	-1.596	3.927	19.760	293.100	1.036	1.210
$\sigma$		0.405	0.050	12.240	2.233	0.027	2.750	5.484	0.022	0.218
%RSD		35.070	6.295	8.598	139.900	0.695	13.920	1.871	2.119	18.040
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:50	1.826	1.803	35.320	1.602	0.477	0.643	-2.369	0.475	-1.643
2	04:37:58	1.794	1.694	36.490	1.812	0.370	0.680	-2.355	0.366	-1.821
3	04:39:06	1.672	1.988	37.220	0.485	-0.597	0.932	-3.082	-0.597	0.332
x		1.764	1.828	36.340	1.300	0.083	0.752	-2.602	0.082	-1.044
$\sigma$		0.081	0.149	0.957	0.714	0.592	0.157	0.416	0.590	1.195
%RSD		4.618	8.145	2.634	54.900	712.100	20.880	15.970	722.600	114.500
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:50	0.429	0.456	0.381	0.429	0.433	-0.003	98%	-0.918	0.031
2	04:37:58	0.459	0.353	0.248	0.331	0.383	0.001	98%	-2.077	0.006
3	04:39:06	0.501	0.299	0.234	0.190	0.277	-0.003	96%	-2.673	-0.003
x		0.463	0.369	0.288	0.317	0.364	-0.001	97%	-1.890	0.011
$\sigma$		0.036	0.080	0.081	0.120	0.080	0.002	1%	0.892	0.017
%RSD		7.830	21.550	28.180	37.890	21.920	182.100	1	47.220	154.800
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:36:50	0.309	-0.937	0.017	0.059	0.309	0.086	491.100	494.300	104%
2	04:37:58	0.797	-2.097	0.008	-0.107	0.323	-0.043	501.200	499.800	103%
3	04:39:06	1.047	-2.693	0.000	-0.117	0.233	-0.079	503.200	507.000	102%
x		0.718	-1.909	0.008	-0.055	0.288	-0.012	498.500	500.300	103%
$\sigma$		0.375	0.893	0.008	0.098	0.048	0.087	6.507	6.367	1%
%RSD		52.300	46.800	99.000	179.500	16.760	724.700	1.305	1.273	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	04:36:50	104%	0.048	0.057	1.233	1.094	1.165	105%	2.465	
2	04:37:58	103%	-0.006	-0.020	1.128	1.097	1.146	104%	2.537	
3	04:39:06	103%	-0.027	-0.031	1.077	1.202	1.154	104%	2.499	
x		103%	0.005	0.002	1.146	1.131	1.155	105%	2.500	
$\sigma$		1%	0.039	0.048	0.080	0.062	0.010	1%	0.036	
%RSD		1	751.100	2402.000	6.952	5.472	0.833	1	1.428	

C4464-15X25 MH3BB3

11/17/2011 04:43:36 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:44	97%	0.107	2.636	0.000	740.800	866.500	857.500	845.800	-4.299
2	04:45:52	98%	0.233	2.875	0.000	734.700	850.600	858.800	841.600	-4.110
3	04:47:00	98%	0.244	0.937	0.000	727.800	854.200	856.200	842.100	-4.690
x		98%	0.195	2.149	0.000	734.500	857.100	857.500	843.200	-4.367
$\sigma$		1%	0.076	1.057	0.000	6.507	8.329	1.301	2.301	0.296
%RSD		1	39.160	49.170	0.000	0.886	0.972	0.152	0.273	6.775
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:44	380.400	-2.071	0.000	0.000	82.920	2619.000	2509.000	97%	0.372
2	04:45:52	377.200	-4.093	0.000	0.000	77.600	2523.000	2498.000	97%	-0.244
3	04:47:00	382.000	-3.877	0.000	0.000	78.910	2446.000	2495.000	98%	0.090
x		379.900	-3.347	0.000	0.000	79.810	2529.000	2501.000	98%	0.073
$\sigma$		2.406	1.110	0.000	0.000	2.772	86.580	7.555	0%	0.308
%RSD		0.634	33.170	0.000	0.000	3.473	3.423	0.302	0	423.700
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:44	-0.064	0.033	25.470	-15.340	0.118	-11.580	-8.959	-0.012	0.110
2	04:45:52	0.009	0.072	22.700	-22.450	0.085	-11.530	-6.283	-0.051	0.046
3	04:47:00	-0.229	0.072	20.720	-15.950	0.066	-12.390	-5.159	-0.021	0.092
x		-0.094	0.059	22.960	-17.910	0.090	-11.830	-6.800	-0.028	0.083
$\sigma$		0.122	0.022	2.383	3.938	0.026	0.481	1.952	0.020	0.033
%RSD		129.100	38.040	10.380	21.980	29.490	4.062	28.700	71.020	39.450
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:44	0.048	-0.125	1.181	0.327	0.095	0.087	-2.005	0.091	-3.511
2	04:45:52	0.029	-0.034	1.177	0.088	-0.326	0.110	-0.893	-0.328	-3.810
3	04:47:00	0.044	-0.113	1.060	-0.065	-0.027	0.101	-2.126	-0.030	-0.142
x		0.040	-0.090	1.139	0.117	-0.086	0.100	-1.675	-0.089	-2.488
$\sigma$		0.010	0.050	0.068	0.197	0.217	0.012	0.680	0.216	2.037
%RSD		25.420	54.870	6.003	169.100	251.900	11.770	40.610	242.300	81.870
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:44	0.324	0.163	0.190	0.241	0.191	-0.003	102%	-1.074	-0.047
2	04:45:52	0.256	0.093	0.183	0.090	0.102	0.001	102%	-0.025	-0.043
3	04:47:00	0.257	0.068	0.038	0.080	0.052	0.001	102%	-0.017	-0.049
x		0.279	0.108	0.137	0.137	0.115	-0.000	102%	-0.372	-0.046
$\sigma$		0.039	0.049	0.086	0.090	0.071	0.002	0%	0.608	0.003
%RSD		13.920	45.380	62.590	65.650	61.310	4849.000	0	163.400	6.858
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:44:44	0.373	-1.088	-0.043	-0.104	0.093	-0.164	20.450	20.790	105%
2	04:45:52	0.117	-0.037	-0.039	-0.054	-0.011	-0.258	20.730	20.720	106%
3	04:47:00	-0.072	-0.030	-0.043	-0.041	-0.045	-0.303	21.200	19.920	106%
x		0.139	-0.385	-0.042	-0.066	0.012	-0.242	20.790	20.480	106%
$\sigma$		0.223	0.609	0.002	0.033	0.072	0.071	0.376	0.480	0%
%RSD		160.100	158.100	5.883	50.290	593.300	29.340	1.807	2.343	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	04:44:44	105%	-0.062	-0.071	-0.040	-0.011	-0.019	109%	0.073	
2	04:45:52	106%	-0.056	-0.074	-0.041	-0.014	-0.028	109%	0.063	
3	04:47:00	106%	-0.071	-0.074	-0.026	-0.027	-0.028	109%	0.055	
x		106%	-0.063	-0.073	-0.036	-0.017	-0.025	109%	0.064	
$\sigma$		0%	0.007	0.002	0.008	0.008	0.005	0%	0.009	
%RSD		0	11.820	2.377	23.600	48.960	19.620	0	14.290	

C4464-17X25 MH3BB4

11/17/2011 04:51:29 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:52:37	98%	0.132	2.322	0.000	744.700	822.200	814.900	810.000	-2.953
2	04:53:45	96%	-0.036	2.114	0.000	753.600	836.000	823.300	827.600	-2.699
3	04:54:53	96%	-0.008	2.658	0.000	750.700	831.100	815.600	814.600	-1.276
x		97%	0.029	2.365	0.000	749.700	829.800	817.900	817.400	-2.309
$\sigma$		1%	0.090	0.274	0.000	4.557	6.981	4.650	9.159	0.904
%RSD		1	307.800	11.600	0.000	0.608	0.841	0.569	1.121	39.150
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:52:37	363.800	-6.060	0.000	0.000	72.760	2448.000	2391.000	96%	-0.019
2	04:53:45	363.200	-4.533	0.000	0.000	77.330	2434.000	2401.000	97%	0.195
3	04:54:53	362.600	3.063	0.000	0.000	71.130	2523.000	2408.000	98%	-0.156
x		363.200	-2.510	0.000	0.000	73.740	2468.000	2400.000	97%	0.007
$\sigma$		0.597	4.887	0.000	0.000	3.214	47.680	8.465	1%	0.177
%RSD		0.164	194.700	0.000	0.000	4.359	1.932	0.353	1	2547.000
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:52:37	-0.112	-0.112	15.240	-17.900	0.123	-11.830	-12.030	-0.006	0.114
2	04:53:45	0.133	-0.059	13.760	-16.150	0.076	-10.950	-7.911	-0.019	0.057
3	04:54:53	0.226	0.007	13.040	-19.130	0.146	-9.510	-4.311	0.010	-0.033
x		0.082	-0.055	14.010	-17.730	0.115	-10.760	-8.083	-0.005	0.046
$\sigma$		0.175	0.060	1.120	1.496	0.036	1.170	3.862	0.014	0.074
%RSD		212.400	109.100	7.993	8.437	30.990	10.870	47.780	273.300	160.600
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:52:37	0.023	-0.089	1.313	0.058	0.353	0.064	-2.577	0.347	-3.449
2	04:53:45	0.098	-0.104	1.098	0.318	-0.135	0.038	-1.840	-0.138	0.777
3	04:54:53	0.075	-0.080	0.837	-0.261	0.553	0.112	-2.228	0.547	-3.814
x		0.065	-0.091	1.083	0.038	0.257	0.071	-2.215	0.252	-2.162
$\sigma$		0.039	0.012	0.239	0.290	0.354	0.038	0.369	0.353	2.552
%RSD		58.940	13.100	22.040	756.400	137.800	52.800	16.640	139.900	118.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:52:37	0.240	0.135	0.100	0.154	0.121	-0.003	101%	2.052	-0.038
2	04:53:45	0.105	0.183	0.109	0.042	0.061	-0.003	102%	-0.737	-0.034
3	04:54:53	0.103	0.062	0.050	0.051	-0.032	-0.003	102%	-1.948	-0.037
x		0.149	0.126	0.086	0.082	0.050	-0.003	101%	-0.211	-0.037
$\sigma$		0.079	0.061	0.032	0.063	0.077	0.000	1%	2.051	0.002
%RSD		52.620	47.940	36.960	76.290	154.900	0.000	1	972.800	5.565
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	04:52:37	-0.942	2.040	-0.043	0.093	0.067	-0.118	19.870	19.630	105%
2	04:53:45	0.230	-0.749	-0.033	-0.049	0.023	-0.293	19.970	20.300	105%
3	04:54:53	0.740	-1.962	-0.039	-0.129	0.009	-0.316	20.750	20.150	106%
x		0.010	-0.224	-0.038	-0.028	0.033	-0.242	20.200	20.030	105%
$\sigma$		0.862	2.052	0.005	0.113	0.031	0.108	0.483	0.354	0%
%RSD		9050.000	917.900	14.090	398.300	93.200	44.660	2.391	1.770	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	04:52:37	105%	-0.057	-0.063	-0.010	0.012	-0.003	108%	0.063	
2	04:53:45	106%	-0.060	-0.062	-0.035	-0.032	-0.013	108%	0.065	
3	04:54:53	106%	-0.050	-0.059	-0.015	-0.006	-0.014	108%	0.063	
x		105%	-0.055	-0.061	-0.020	-0.009	-0.010	108%	0.064	
$\sigma$		0%	0.005	0.002	0.013	0.022	0.006	0%	0.001	
%RSD		0	9.231	3.715	64.960	258.100	63.340	0	1.419	

C4464-01 MH3BA1 11/17/2011 04:59:23 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:31	93%	0.293	170.400	0.000	1141000.000	1211000.000	1201000.000	1182000.000	68.810
2	05:01:39	95%	0.203	161.300	0.000	1144000.000	1217000.000	1210000.000	1187000.000	67.140
3	05:02:47	95%	0.010	188.500	0.000	1149000.000	1226000.000	1218000.000	1194000.000	67.370
x		94%	0.169	173.400	0.000	1145000.000	1218000.000	1210000.000	1188000.000	67.770
$\sigma$		1%	0.145	13.860	0.000	4017.000	7446.000	8600.000	6187.000	0.904
%RSD		2	85.580	7.992	0.000	0.351	0.611	0.711	0.521	1.334
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:31	8933.000	4910.000	0.000	0.000	66230.000	56840.000	56610.000	95%	19.010
2	05:01:39	9063.000	4983.000	0.000	0.000	66950.000	57170.000	57050.000	97%	19.330
3	05:02:47	9073.000	5017.000	0.000	0.000	67230.000	57880.000	57170.000	98%	19.560
x		9023.000	4970.000	0.000	0.000	66800.000	57300.000	56950.000	96%	19.300
$\sigma$		78.300	54.450	0.000	0.000	514.600	530.600	296.400	1%	0.281
%RSD		0.868	1.096	0.000	0.000	0.770	0.926	0.521	1	1.454
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:31	7.680	7.329	60.890	1651.000	1090.000	1722.000	1873.000	0.983	13.570
2	05:01:39	6.115	7.323	70.260	1697.000	1111.000	1751.000	1891.000	0.932	13.870
3	05:02:47	6.457	7.383	71.260	1685.000	1104.000	1751.000	1890.000	0.950	13.940
x		6.751	7.345	67.470	1678.000	1102.000	1741.000	1885.000	0.955	13.790
$\sigma$		0.823	0.033	5.721	23.660	10.300	16.640	10.080	0.026	0.198
%RSD		12.190	0.447	8.480	1.410	0.935	0.956	0.535	2.731	1.438
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:31	2.136	1.220	2.942	25.630	1.060	0.504	-1.370	1.063	0.918
2	05:01:39	2.270	1.364	2.980	26.880	1.279	0.563	-1.171	1.284	1.715
3	05:02:47	2.494	1.034	2.649	25.990	1.251	0.670	-2.069	1.255	2.126
x		2.300	1.206	2.857	26.170	1.197	0.579	-1.537	1.201	1.587
$\sigma$		0.181	0.166	0.181	0.647	0.119	0.084	0.471	0.120	0.614
%RSD		7.867	13.730	6.335	2.473	9.968	14.580	30.670	9.984	38.710
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:31	126.100	0.393	11.460	0.434	0.439	0.002	92%	22.170	0.130
2	05:01:39	126.000	0.449	11.990	0.364	0.446	0.006	93%	25.120	0.126
3	05:02:47	126.900	0.405	11.540	0.546	0.451	0.002	95%	23.670	0.145
x		126.300	0.416	11.660	0.448	0.446	0.003	93%	23.650	0.134
$\sigma$		0.481	0.030	0.284	0.092	0.006	0.002	1%	1.475	0.010
%RSD		0.381	7.125	2.433	20.440	1.403	82.100	1	6.238	7.518
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:00:31	-5.831	22.070	0.021	0.743	0.141	0.049	1797.000	1796.000	106%
2	05:01:39	-5.881	25.020	0.051	0.718	0.114	-0.052	1846.000	1833.000	107%
3	05:02:47	-4.170	23.570	0.060	0.561	0.085	-0.129	1827.000	1831.000	109%
x		-5.294	23.550	0.044	0.674	0.113	-0.044	1824.000	1820.000	107%
$\sigma$		0.974	1.474	0.021	0.099	0.028	0.089	24.650	21.260	1%
%RSD		18.390	6.257	46.900	14.680	24.540	203.200	1.352	1.168	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	05:00:31	107%	0.007	-0.017	0.663	0.649	0.635	100%	2.254	
2	05:01:39	108%	-0.033	-0.042	0.958	1.058	1.031	100%	2.300	
3	05:02:47	109%	-0.054	-0.051	1.279	1.159	1.302	102%	2.336	
x		108%	-0.027	-0.037	0.967	0.955	0.989	101%	2.297	
$\sigma$		1%	0.031	0.018	0.308	0.270	0.335	1%	0.041	
%RSD		1	115.200	47.840	31.860	28.240	33.900	1	1.789	

C4464-02 MH3BA2 11/17/2011 05:07:17 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:25	95%	0.025	240.900	0.000	789700.000	150300.000	148300.000	146800.000	52.100
2	05:09:33	95%	0.099	222.800	0.000	813200.000	155100.000	153100.000	151800.000	54.100
3	05:10:41	92%	0.050	242.800	0.000	818700.000	156300.000	153600.000	152700.000	54.830
x		94%	0.058	235.500	0.000	807200.000	153900.000	151700.000	150400.000	53.680
$\sigma$		2%	0.037	11.060	0.000	15430.000	3172.000	2952.000	3171.000	1.414
%RSD		2	64.520	4.698	0.000	1.912	2.061	1.946	2.108	2.634
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:25	16360.000	2252.000	0.000	0.000	20460.000	176000.000	179500.000	100%	21.470
2	05:09:33	16910.000	2349.000	0.000	0.000	21450.000	185600.000	188900.000	96%	21.940
3	05:10:41	16930.000	2349.000	0.000	0.000	21160.000	183400.000	186300.000	98%	22.300
x		16730.000	2317.000	0.000	0.000	21020.000	181700.000	184900.000	98%	21.900
$\sigma$		323.800	56.070	0.000	0.000	508.900	5066.000	4875.000	2%	0.418
%RSD		1.935	2.420	0.000	0.000	2.421	2.788	2.636	2	1.907
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:25	7.091	5.664	82.510	271.300	4221.000	295.200	1072.000	1.562	9.474
2	05:09:33	7.996	5.911	91.170	287.800	4484.000	318.700	1141.000	1.636	10.610
3	05:10:41	7.121	5.976	94.050	282.000	4412.000	309.100	1109.000	1.589	10.450
x		7.403	5.850	89.240	280.400	4372.000	307.700	1107.000	1.596	10.180
$\sigma$		0.514	0.164	6.008	8.364	136.200	11.780	34.570	0.038	0.614
%RSD		6.945	2.809	6.733	2.983	3.114	3.827	3.122	2.359	6.032
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:25	2.048	1.295	2.946	16.260	1.297	0.602	-1.579	1.299	0.320
2	05:09:33	2.153	1.509	3.081	15.850	0.214	0.825	-1.669	0.215	-0.249
3	05:10:41	2.072	1.279	3.012	16.230	1.291	0.768	-1.773	1.293	2.619
x		2.091	1.361	3.013	16.110	0.934	0.732	-1.673	0.936	0.896
$\sigma$		0.055	0.129	0.068	0.231	0.623	0.116	0.097	0.624	1.518
%RSD		2.633	9.451	2.245	1.432	66.740	15.870	5.802	66.740	169.400
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:25	26.010	0.179	2.534	0.223	0.200	-0.003	98%	4.220	0.035
2	05:09:33	26.590	0.249	2.541	0.044	0.219	-0.003	96%	5.826	0.055
3	05:10:41	25.500	0.122	2.463	0.044	0.177	0.001	96%	3.514	0.046
x		26.030	0.184	2.513	0.104	0.198	-0.001	96%	4.520	0.045
$\sigma$		0.544	0.064	0.043	0.104	0.021	0.002	1%	1.185	0.010
%RSD		2.091	34.620	1.714	99.800	10.600	188.000	1	26.210	21.990
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:08:25	-0.687	4.178	0.012	0.138	0.222	0.139	1155.000	1160.000	110%
2	05:09:33	-1.265	5.779	0.046	0.122	0.203	0.005	1196.000	1198.000	107%
3	05:10:41	-1.214	3.469	0.011	0.135	0.174	-0.072	1192.000	1201.000	108%
x		-1.055	4.475	0.023	0.132	0.200	0.024	1181.000	1186.000	108%
$\sigma$		0.320	1.183	0.020	0.009	0.024	0.107	22.810	22.970	1%
%RSD		30.340	26.440	84.410	6.715	12.090	442.500	1.931	1.937	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	05:08:25	111%	-0.041	-0.041	0.715	0.680	0.712	107%	2.331	
2	05:09:33	108%	-0.042	-0.051	0.753	0.769	0.726	104%	2.376	
3	05:10:41	110%	-0.048	-0.068	0.702	0.723	0.681	104%	2.390	
x		110%	-0.044	-0.053	0.723	0.724	0.706	105%	2.366	
$\sigma$		1%	0.004	0.013	0.026	0.044	0.023	1%	0.031	
%RSD		1	9.475	25.070	3.660	6.114	3.267	1	1.317	

C4464-03 MH3BA3 11/17/2011 05:15:12 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:20	88%	0.480	1018.000	0.000	1979000.000	51190.000	51920.000	50510.000	174.800
2	05:17:28	88%	0.385	996.500	0.000	2029000.000	52710.000	52940.000	52130.000	180.800
3	05:18:36	94%	0.261	977.300	0.000	1924000.000	49820.000	50850.000	49880.000	171.600
x		90%	0.375	997.400	0.000	1977000.000	51240.000	51900.000	50840.000	175.700
$\sigma$		3%	0.110	20.510	0.000	52700.000	1445.000	1047.000	1161.000	4.705
%RSD		3	29.280	2.057	0.000	2.666	2.821	2.018	2.283	2.678
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:20	17210.000	4655.000	0.000	0.000	46520.000	20840.000	21020.000	93%	303.700
2	05:17:28	17790.000	4839.000	0.000	0.000	47700.000	21660.000	21880.000	92%	312.100
3	05:18:36	17080.000	4628.000	0.000	0.000	46660.000	20880.000	21320.000	88%	302.600
x		17360.000	4707.000	0.000	0.000	46960.000	21130.000	21400.000	91%	306.100
$\sigma$		374.300	114.800	0.000	0.000	642.400	463.800	436.200	3%	5.203
%RSD		2.156	2.440	0.000	0.000	1.368	2.195	2.038	3	1.700
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:20	54.210	36.620	93.830	7221.000	713.300	7104.000	7093.000	3.853	11.520
2	05:17:28	56.660	38.640	99.420	7540.000	737.200	7368.000	7352.000	4.081	12.690
3	05:18:36	54.730	37.780	110.600	7444.000	726.900	7319.000	7316.000	3.948	12.300
x		55.200	37.680	101.300	7402.000	725.800	7264.000	7254.000	3.961	12.170
$\sigma$		1.287	1.012	8.566	163.700	12.010	140.300	140.100	0.114	0.596
%RSD		2.331	2.686	8.456	2.212	1.655	1.931	1.931	2.889	4.898
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:20	3.877	1.438	4.448	30.580	1.549	0.646	-2.097	1.552	1.408
2	05:17:28	3.945	1.518	4.150	31.720	2.024	0.650	-2.143	2.026	-1.239
3	05:18:36	4.502	1.848	4.428	30.620	1.799	0.727	-0.973	1.801	0.772
x		4.108	1.602	4.342	30.970	1.791	0.674	-1.737	1.793	0.314
$\sigma$		0.343	0.218	0.167	0.646	0.238	0.046	0.663	0.237	1.381
%RSD		8.348	13.580	3.837	2.084	13.280	6.785	38.140	13.240	440.400
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:20	144.100	4.751	17.700	4.423	4.615	-0.003	91%	26.110	0.163
2	05:17:28	152.000	4.592	18.890	4.603	4.755	-0.003	90%	22.850	0.130
3	05:18:36	148.100	5.099	18.010	4.212	4.666	0.007	86%	27.920	0.141
x		148.100	4.814	18.200	4.412	4.679	0.000	89%	25.630	0.145
$\sigma$		3.954	0.259	0.616	0.196	0.071	0.005	3%	2.571	0.016
%RSD		2.670	5.383	3.387	4.439	1.512	1266.000	3	10.030	11.360
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:16:20	-5.093	26.010	0.081	0.698	12.790	0.411	473.200	474.800	104%
2	05:17:28	-4.268	22.750	0.078	0.505	13.140	0.353	486.300	489.300	103%
3	05:18:36	-5.359	27.800	0.031	0.661	12.810	0.280	479.300	479.100	99%
x		-4.907	25.520	0.064	0.621	12.910	0.348	479.600	481.000	102%
$\sigma$		0.569	2.562	0.028	0.102	0.199	0.065	6.553	7.443	3%
%RSD		11.600	10.040	44.350	16.410	1.538	18.790	1.366	1.547	3
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	05:16:20	105%	-0.033	-0.026	1.160	1.185	1.149	100%	0.385	
2	05:17:28	104%	-0.059	-0.037	1.471	1.347	1.465	99%	0.355	
3	05:18:36	101%	-0.033	-0.069	1.550	1.433	1.513	96%	0.356	
x		103%	-0.042	-0.044	1.394	1.321	1.376	98%	0.365	
$\sigma$		2%	0.015	0.023	0.206	0.126	0.198	2%	0.017	
%RSD		2	35.960	51.250	14.790	9.524	14.360	2	4.564	

C4464-01X25 MH3BA1

11/17/2011 05:23:07 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:15	104%	0.012	22.160	0.000	43090.000	46950.000	47700.000	47960.000	-4.422
2	05:25:23	104%	-0.124	22.110	0.000	43840.000	47880.000	48530.000	49030.000	-5.099
3	05:26:31	103%	0.000	16.520	0.000	44090.000	47440.000	48510.000	48770.000	-3.844
x		104%	-0.037	20.260	0.000	43670.000	47420.000	48250.000	48590.000	-4.455
$\sigma$		0%	0.076	3.243	0.000	523.500	463.600	472.700	561.500	0.628
%RSD		0	203.600	16.000	0.000	1.199	0.978	0.980	1.156	14.100
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:15	363.400	194.800	0.000	0.000	2724.000	2357.000	2304.000	100%	0.666
2	05:25:23	367.400	210.200	0.000	0.000	2751.000	2386.000	2329.000	100%	1.465
3	05:26:31	372.900	203.700	0.000	0.000	2740.000	2351.000	2341.000	101%	0.563
x		367.900	202.900	0.000	0.000	2739.000	2365.000	2325.000	101%	0.898
$\sigma$		4.743	7.699	0.000	0.000	13.620	18.640	18.860	0%	0.494
%RSD		1.289	3.794	0.000	0.000	0.497	0.788	0.811	0	54.970
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:15	0.748	0.475	32.740	57.840	45.440	86.630	73.020	0.015	0.621
2	05:25:23	0.896	0.463	29.700	62.420	45.780	90.370	72.970	0.016	0.633
3	05:26:31	-0.125	0.474	28.510	57.630	46.170	92.780	81.960	-0.018	0.687
x		0.507	0.471	30.320	59.300	45.790	89.930	75.980	0.004	0.647
$\sigma$		0.552	0.007	2.178	2.706	0.365	3.099	5.173	0.019	0.036
%RSD		108.900	1.423	7.185	4.563	0.798	3.446	6.808	455.100	5.504
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:15	1.209	0.051	-0.077	1.052	0.011	0.171	-1.022	0.010	-0.232
2	05:25:23	0.788	0.050	0.199	0.718	-0.071	0.206	-2.136	-0.072	-1.095
3	05:26:31	0.790	0.193	0.074	1.090	-0.011	0.142	-1.921	-0.012	1.051
x		0.929	0.098	0.065	0.953	-0.023	0.173	-1.693	-0.025	-0.092
$\sigma$		0.242	0.083	0.138	0.205	0.043	0.032	0.591	0.042	1.080
%RSD		26.070	84.450	212.000	21.510	182.500	18.520	34.920	170.500	1173.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:15	4.537	0.005	0.274	-0.000	0.013	-0.003	102%	1.566	-0.020
2	05:25:23	4.668	-0.051	0.377	0.009	-0.068	-0.003	102%	0.479	-0.026
3	05:26:31	4.475	-0.065	0.298	0.007	-0.024	0.001	103%	1.233	-0.022
x		4.560	-0.037	0.317	0.005	-0.026	-0.001	103%	1.092	-0.023
$\sigma$		0.099	0.037	0.054	0.005	0.040	0.002	1%	0.557	0.003
%RSD		2.167	99.330	17.050	92.870	154.000	162.600	1	51.000	13.780
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:24:15	-0.426	1.548	-0.031	0.020	0.031	-0.189	72.370	74.380	108%
2	05:25:23	-0.279	0.464	-0.037	-0.025	0.018	-0.284	73.730	74.300	107%
3	05:26:31	-0.229	1.218	-0.037	0.006	0.036	-0.319	72.340	73.370	108%
x		-0.311	1.077	-0.035	0.000	0.028	-0.264	72.810	74.020	108%
$\sigma$		0.102	0.556	0.004	0.023	0.009	0.067	0.793	0.564	1%
%RSD		32.830	51.630	10.750	5360.000	33.390	25.340	1.089	0.762	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	05:24:15	108%	-0.073	-0.074	0.299	0.286	0.312	108%	0.054	
2	05:25:23	107%	-0.071	-0.074	0.291	0.328	0.293	107%	0.045	
3	05:26:31	109%	-0.073	-0.071	0.257	0.274	0.267	109%	0.053	
x		108%	-0.072	-0.073	0.282	0.296	0.291	108%	0.051	
$\sigma$		1%	0.002	0.002	0.023	0.028	0.023	1%	0.005	
%RSD		1	2.148	2.311	8.013	9.600	7.748	1	9.629	

C4464-02X25 MH3BA2

11/17/2011 05:31:02 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:10	96%	0.126	13.900	0.000	31480.000	6137.000	6161.000	6276.000	-2.304
2	05:33:18	97%	-0.007	14.130	0.000	31670.000	6159.000	6254.000	6355.000	-1.968
3	05:34:25	96%	-0.021	16.150	0.000	31700.000	6206.000	6316.000	6354.000	-0.785
x		96%	0.033	14.730	0.000	31620.000	6168.000	6244.000	6328.000	-1.686
$\sigma$		0%	0.081	1.240	0.000	118.600	34.840	77.720	45.030	0.798
%RSD		0	249.100	8.418	0.000	0.375	0.565	1.245	0.712	47.360
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:10	668.200	92.850	0.000	0.000	860.400	7471.000	7332.000	93%	1.240
2	05:33:18	673.400	93.700	0.000	0.000	860.900	7638.000	7449.000	93%	0.718
3	05:34:25	668.000	96.130	0.000	0.000	873.300	7219.000	7475.000	93%	1.103
x		669.900	94.230	0.000	0.000	864.900	7443.000	7419.000	93%	1.020
$\sigma$		3.068	1.701	0.000	0.000	7.312	210.900	75.770	0%	0.270
%RSD		0.458	1.806	0.000	0.000	0.845	2.834	1.021	0	26.500
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:10	-0.130	0.207	28.160	-5.258	179.100	5.104	47.920	0.057	0.353
2	05:33:18	0.412	0.294	26.400	-0.579	180.900	6.118	45.840	0.066	0.581
3	05:34:25	-0.247	0.404	26.630	0.559	183.100	8.206	49.620	0.031	0.484
x		0.012	0.301	27.060	-1.759	181.000	6.476	47.800	0.051	0.473
$\sigma$		0.352	0.099	0.958	3.083	2.016	1.582	1.892	0.018	0.115
%RSD		2925.000	32.770	3.542	175.200	1.113	24.430	3.959	34.920	24.270
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:10	0.262	0.052	0.084	0.181	-0.050	0.210	-1.614	-0.053	0.690
2	05:33:18	0.229	-0.052	0.073	-0.008	-0.454	0.276	-2.893	-0.454	-1.365
3	05:34:25	0.259	0.038	0.181	0.781	0.139	0.140	-1.765	0.136	-1.652
x		0.250	0.013	0.113	0.318	-0.122	0.209	-2.091	-0.124	-0.776
$\sigma$		0.019	0.056	0.059	0.412	0.303	0.068	0.699	0.301	1.277
%RSD		7.426	442.900	52.630	129.600	248.400	32.420	33.450	243.600	164.600
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:10	1.034	0.024	0.100	0.053	0.001	-0.003	97%	-0.759	-0.007
2	05:33:18	1.145	-0.068	0.046	-0.008	-0.006	0.001	96%	1.023	-0.020
3	05:34:25	1.043	0.025	0.053	0.066	-0.050	-0.003	96%	-0.674	-0.015
x		1.074	-0.006	0.066	0.037	-0.018	-0.001	96%	-0.137	-0.014
$\sigma$		0.062	0.053	0.029	0.040	0.028	0.002	0%	1.005	0.007
%RSD		5.770	840.100	44.220	107.700	153.900	188.900	1	734.700	46.210
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:32:10	0.243	-0.778	-0.020	-0.059	0.026	-0.177	45.730	47.270	103%
2	05:33:18	-0.440	1.004	-0.020	0.004	-0.033	-0.287	47.370	48.290	102%
3	05:34:25	0.340	-0.695	-0.032	-0.041	-0.001	-0.282	49.330	47.740	102%
x		0.047	-0.157	-0.024	-0.032	-0.003	-0.249	47.480	47.770	102%
$\sigma$		0.425	1.006	0.006	0.032	0.029	0.062	1.804	0.510	0%
%RSD		899.100	642.000	27.040	101.900	1048.000	24.990	3.801	1.068	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	05:32:10	103%	-0.068	-0.059	0.239	0.208	0.199	105%	0.080	
2	05:33:18	102%	-0.046	-0.059	0.084	0.181	0.153	104%	0.057	
3	05:34:25	103%	-0.023	-0.058	0.142	0.201	0.164	104%	0.076	
x		103%	-0.046	-0.059	0.155	0.197	0.172	104%	0.071	
$\sigma$		0%	0.023	0.000	0.078	0.014	0.024	0%	0.012	
%RSD		0	48.940	0.653	50.460	7.114	13.690	0	17.500	

C4464-03X25 MH3BA3 11/17/2011 05:38:57 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	90%	0.142	46.260	0.000	82360.000	2156.000	2185.000	2233.000	5.759
2	05:41:13	93%	-0.026	41.710	0.000	79500.000	2115.000	2146.000	2175.000	4.468
3	05:42:21	90%	0.015	46.460	0.000	80710.000	2116.000	2145.000	2171.000	5.078
x		91%	0.044	44.810	0.000	80850.000	2129.000	2159.000	2193.000	5.102
$\sigma$		2%	0.088	2.683	0.000	1436.000	23.310	22.690	34.610	0.646
%RSD		2	200.300	5.988	0.000	1.776	1.095	1.051	1.578	12.660
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	728.200	205.100	0.000	0.000	2019.000	892.800	911.200	88%	14.140
2	05:41:13	700.500	202.300	0.000	0.000	1986.000	901.000	884.600	88%	13.000
3	05:42:21	701.200	202.700	0.000	0.000	1967.000	982.300	891.200	89%	11.440
x		710.000	203.400	0.000	0.000	1991.000	925.400	895.700	88%	12.860
$\sigma$		15.750	1.518	0.000	0.000	26.160	49.470	13.880	1%	1.357
%RSD		2.219	0.746	0.000	0.000	1.314	5.346	1.550	1	10.550
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	2.018	1.684	24.070	313.100	31.010	310.900	309.500	0.123	0.592
2	05:41:13	2.178	1.651	23.840	299.600	30.980	308.400	323.100	0.136	0.564
3	05:42:21	2.288	1.500	23.120	294.800	31.040	302.500	315.100	0.124	0.703
x		2.162	1.612	23.680	302.500	31.010	307.300	315.900	0.128	0.619
$\sigma$		0.136	0.098	0.492	9.490	0.028	4.306	6.879	0.007	0.074
%RSD		6.286	6.078	2.079	3.137	0.090	1.402	2.177	5.489	11.890
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	0.319	0.068	0.081	1.459	-0.001	0.130	-1.680	-0.005	-2.167
2	05:41:13	0.205	0.067	-0.090	1.439	0.734	0.127	-2.304	0.728	-1.860
3	05:42:21	0.369	0.078	-0.174	0.876	-0.065	0.198	-1.538	-0.067	0.596
x		0.298	0.071	-0.061	1.258	0.223	0.152	-1.841	0.219	-1.143
$\sigma$		0.084	0.006	0.130	0.331	0.444	0.041	0.407	0.442	1.514
%RSD		28.210	9.006	213.800	26.330	199.500	26.780	22.130	202.300	132.400
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	5.580	0.258	0.653	0.034	0.201	0.006	92%	1.397	-0.021
2	05:41:13	5.628	0.189	0.640	0.223	0.128	-0.003	92%	-1.233	-0.030
3	05:42:21	5.152	0.201	0.514	0.166	0.089	-0.003	92%	0.644	-0.007
x		5.453	0.216	0.603	0.141	0.139	0.000	92%	0.269	-0.019
$\sigma$		0.262	0.037	0.077	0.097	0.057	0.005	0%	1.354	0.012
%RSD		4.799	17.190	12.740	68.650	40.920	2021.000	0	503.700	60.410
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:40:05	-0.318	1.375	-0.026	0.021	0.406	-0.195	18.670	19.980	98%
2	05:41:13	0.581	-1.256	-0.019	-0.078	0.443	-0.265	19.000	19.540	98%
3	05:42:21	-0.002	0.620	-0.016	-0.039	0.415	-0.330	18.760	18.430	99%
x		0.087	0.246	-0.020	-0.032	0.421	-0.263	18.810	19.310	98%
$\sigma$		0.456	1.355	0.005	0.050	0.019	0.068	0.171	0.799	0%
%RSD		523.100	550.400	24.220	155.700	4.527	25.750	0.907	4.136	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	05:40:05	99%	-0.039	-0.056	0.110	0.129	0.116	99%	-0.002	
2	05:41:13	99%	-0.046	-0.040	0.098	0.129	0.130	100%	-0.002	
3	05:42:21	100%	-0.052	-0.047	0.118	0.102	0.130	101%	0.003	
x		99%	-0.045	-0.048	0.109	0.120	0.125	100%	-0.000	
$\sigma$		0%	0.006	0.008	0.010	0.016	0.008	1%	0.002	
%RSD		0	14.200	16.390	9.565	13.240	6.182	1	1307.000	

CCV46 11/17/2011 05:46:52 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:00	89%	495.700	498.400	0.000	49240.000	48370.000	50150.000	49620.000	9482.000
2	05:49:08	90%	493.900	508.900	0.000	49170.000	48390.000	50370.000	49660.000	9578.000
3	05:50:15	89%	510.700	499.200	0.000	50100.000	49180.000	51020.000	50380.000	9689.000
x		89%	500.100	502.100	0.000	49500.000	48650.000	50510.000	49890.000	9583.000
$\sigma$		1%	9.203	5.853	0.000	518.200	460.100	451.600	426.000	103.400
%RSD		1	1.840	1.166	0.000	1.047	0.946	0.894	0.854	1.079
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:00	487.700	9707.000	0.000	0.000	24590.000	49740.000	49990.000	87%	493.000
2	05:49:08	495.800	9801.000	0.000	0.000	24710.000	50310.000	50640.000	86%	504.900
3	05:50:15	495.100	9892.000	0.000	0.000	25170.000	51320.000	51300.000	85%	508.400
x		492.900	9800.000	0.000	0.000	24820.000	50460.000	50640.000	86%	502.100
$\sigma$		4.478	92.720	0.000	0.000	303.400	798.500	651.600	1%	8.087
%RSD		0.909	0.946	0.000	0.000	1.222	1.583	1.287	1	1.611
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:00	495.400	496.600	18.180	25680.000	1012.000	25190.000	25180.000	496.300	496.400
2	05:49:08	500.400	507.200	13.870	26110.000	1019.000	25440.000	25580.000	504.700	506.900
3	05:50:15	508.900	510.900	15.300	26540.000	1039.000	25890.000	25810.000	511.200	513.300
x		501.600	504.900	15.780	26110.000	1023.000	25510.000	25520.000	504.100	505.600
$\sigma$		6.812	7.398	2.192	427.800	14.160	356.600	319.900	7.500	8.545
%RSD		1.358	1.465	13.890	1.638	1.384	1.398	1.254	1.488	1.690
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:00	997.100	995.400	1024.000	501.000	521.800	-1.309	498.400	519.700	0.276
2	05:49:08	1015.000	1009.000	1034.000	505.400	518.500	-0.641	503.600	516.800	-0.275
3	05:50:15	1022.000	1016.000	1052.000	505.600	531.500	-0.868	512.500	528.600	-1.917
x		1011.000	1007.000	1037.000	504.000	523.900	-0.939	504.800	521.700	-0.639
$\sigma$		12.800	10.510	13.930	2.594	6.773	0.340	7.162	6.105	1.141
%RSD		1.266	1.044	1.343	0.515	1.293	36.170	1.419	1.170	178.700
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:00	495.500	494.500	492.300	492.900	495.700	0.015	89%	518.800	505.500
2	05:49:08	504.700	504.600	504.500	506.200	501.700	0.006	88%	522.000	508.500
3	05:50:15	506.400	503.200	504.500	503.300	506.500	0.002	89%	529.700	510.900
x		502.200	500.800	500.400	500.800	501.300	0.008	89%	523.500	508.300
$\sigma$		5.868	5.488	7.050	6.961	5.450	0.007	1%	5.596	2.716
%RSD		1.168	1.096	1.409	1.390	1.087	87.100	1	1.069	0.534
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:48:00	11.800	518.300	505.800	507.800	503.000	504.700	2489.000	2478.000	97%
2	05:49:08	2.349	521.500	509.900	517.500	512.900	511.700	2510.000	2511.000	97%
3	05:50:15	5.815	529.300	512.400	521.200	511.000	512.100	2507.000	2522.000	97%
x		6.654	523.000	509.400	515.500	509.000	509.500	2502.000	2503.000	97%
$\sigma$		4.780	5.634	3.357	6.923	5.278	4.206	11.390	23.120	0%
%RSD		71.840	1.077	0.659	1.343	1.037	0.826	0.455	0.924	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	05:48:00	98%	499.800	500.600	496.100	500.100	500.000	99%	499.700	
2	05:49:08	98%	506.100	506.200	505.600	509.000	507.800	98%	508.200	
3	05:50:15	98%	509.700	507.500	509.000	510.700	509.000	98%	508.800	
x		98%	505.200	504.800	503.600	506.600	505.600	98%	505.600	
$\sigma$		0%	4.990	3.641	6.671	5.730	4.925	1%	5.082	
%RSD		0	0.988	0.721	1.325	1.131	0.974	1	1.005	

CCB46 11/17/2011 05:54:44 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:55:52	92%	0.362	9.336	0.000	182.300	35.080	32.810	31.580	4.843
2	05:57:00	90%	0.155	8.934	0.000	162.200	22.020	20.330	21.380	1.624
3	05:58:08	91%	0.229	7.671	0.000	184.600	28.470	29.090	27.600	5.173
x		91%	0.249	8.647	0.000	176.300	28.520	27.410	26.850	3.880
$\sigma$		1%	0.105	0.869	0.000	12.320	6.528	6.409	5.144	1.961
%RSD		1	42.150	10.050	0.000	6.988	22.890	23.380	19.160	50.540
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:55:52	-0.544	7.432	0.000	0.000	16.180	33.480	35.880	89%	0.232
2	05:57:00	0.280	4.244	0.000	0.000	3.941	25.820	25.150	89%	0.193
3	05:58:08	0.840	7.523	0.000	0.000	24.610	39.050	26.080	86%	0.330
x		0.192	6.400	0.000	0.000	14.910	32.780	29.040	88%	0.252
$\sigma$		0.696	1.867	0.000	0.000	10.390	6.639	5.948	1%	0.071
%RSD		362.800	29.170	0.000	0.000	69.700	20.250	20.480	2	28.140
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:55:52	0.280	0.275	10.010	6.029	0.452	2.269	22.810	0.242	0.203
2	05:57:00	0.897	0.139	8.101	-0.599	0.280	-6.478	26.560	0.101	0.270
3	05:58:08	0.242	0.250	9.286	-0.827	0.396	-2.953	24.160	0.205	0.576
x		0.473	0.221	9.131	1.534	0.376	-2.387	24.510	0.182	0.350
$\sigma$		0.368	0.072	0.962	3.894	0.088	4.401	1.895	0.073	0.199
%RSD		77.760	32.750	10.530	253.800	23.350	184.300	7.733	40.150	56.900
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:55:52	0.710	0.599	0.290	0.249	0.150	0.049	-1.688	0.144	-4.479
2	05:57:00	0.468	0.403	-0.102	0.126	0.297	0.038	-2.196	0.291	0.442
3	05:58:08	0.536	0.277	0.296	0.364	0.232	0.030	-2.431	0.226	1.973
x		0.571	0.427	0.161	0.246	0.227	0.039	-2.105	0.220	-0.688
$\sigma$		0.125	0.162	0.228	0.119	0.074	0.009	0.380	0.074	3.371
%RSD		21.870	38.000	141.100	48.210	32.600	24.280	18.040	33.400	490.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:55:52	2.063	1.816	1.828	1.893	1.814	0.002	94%	-0.856	0.256
2	05:57:00	1.514	1.361	1.328	1.470	1.397	0.002	94%	-0.155	0.121
3	05:58:08	1.239	1.447	1.087	1.099	1.093	-0.003	92%	-0.775	0.254
x		1.605	1.542	1.414	1.487	1.435	0.000	93%	-0.596	0.211
$\sigma$		0.420	0.242	0.378	0.397	0.362	0.002	1%	0.383	0.078
%RSD		26.140	15.690	26.730	26.700	25.230	1373.000	1	64.370	36.890
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:55:52	0.283	-0.874	0.318	0.120	0.860	1.117	2.148	2.053	99%
2	05:57:00	0.056	-0.175	0.172	0.127	0.614	0.698	1.091	0.998	100%
3	05:58:08	0.525	-0.796	0.191	0.179	0.616	0.401	1.133	1.249	98%
x		0.288	-0.615	0.227	0.142	0.696	0.739	1.457	1.433	99%
$\sigma$		0.234	0.383	0.080	0.032	0.141	0.359	0.599	0.551	1%
%RSD		81.400	62.340	35.140	22.500	20.310	48.670	41.080	38.440	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	05:55:52	99%	0.245	0.245	0.365	0.346	0.380	103%	0.255	
2	05:57:00	100%	0.118	0.125	0.195	0.232	0.204	103%	0.154	
3	05:58:08	99%	0.242	0.204	0.269	0.263	0.257	101%	0.182	
x		99%	0.202	0.191	0.276	0.281	0.280	102%	0.197	
$\sigma$		1%	0.073	0.061	0.085	0.059	0.090	1%	0.052	
%RSD		1	36.120	31.900	30.800	20.890	32.120	1	26.340	

C4464-04 MH3BA4

11/17/2011 06:02:37 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:03:45	92%	0.251	218.400	0.000	723400.000	138500.000	139900.000	140300.000	30.330
2	06:04:53	92%	0.022	239.500	0.000	731300.000	140400.000	141200.000	142200.000	31.400
3	06:06:01	90%	0.219	242.200	0.000	740500.000	141800.000	142900.000	143300.000	31.970
x		92%	0.164	233.400	0.000	731700.000	140200.000	141300.000	141900.000	31.240
σ		1%	0.124	13.020	0.000	8557.000	1637.000	1474.000	1517.000	0.833
%RSD		1	75.440	5.580	0.000	1.169	1.167	1.043	1.068	2.666
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:03:45	16920.000	2247.000	0.000	0.000	22860.000	271400.000	277600.000	89%	25.930
2	06:04:53	17010.000	2250.000	0.000	0.000	23110.000	275700.000	281600.000	89%	25.060
3	06:06:01	17270.000	2254.000	0.000	0.000	23370.000	278100.000	283600.000	88%	23.090
x		17070.000	2250.000	0.000	0.000	23110.000	275000.000	280900.000	89%	24.700
σ		178.500	3.135	0.000	0.000	259.700	3401.000	3050.000	1%	1.457
%RSD		1.046	0.139	0.000	0.000	1.124	1.237	1.086	1	5.899
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:03:45	9.713	7.088	61.790	17180.000	8601.000	16790.000	17990.000	2.019	8.597
2	06:04:53	9.061	7.311	67.490	17380.000	8706.000	16990.000	18200.000	2.033	8.805
3	06:06:01	10.760	7.528	66.960	17490.000	8776.000	17140.000	18210.000	2.136	9.354
x		9.845	7.309	65.420	17350.000	8695.000	16970.000	18130.000	2.063	8.919
σ		0.858	0.220	3.149	158.900	88.020	177.500	125.800	0.064	0.391
%RSD		8.709	3.009	4.814	0.916	1.012	1.046	0.694	3.101	4.383
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:03:45	2.416	1.931	3.646	30.960	0.953	0.609	-2.912	0.956	-0.315
2	06:04:53	2.188	1.929	3.294	33.610	2.321	0.376	-0.952	2.328	2.749
3	06:06:01	2.259	1.849	3.849	32.750	0.820	0.613	-2.333	0.823	-0.123
x		2.288	1.903	3.597	32.440	1.364	0.533	-2.066	1.369	0.771
σ		0.117	0.047	0.281	1.357	0.831	0.135	1.007	0.833	1.716
%RSD		5.092	2.471	7.805	4.182	60.890	25.430	48.730	60.860	222.800
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:03:45	38.260	1.934	5.584	2.114	1.722	-0.003	87%	7.739	0.154
2	06:04:53	39.190	1.640	5.151	1.581	1.754	-0.003	86%	6.849	0.075
3	06:06:01	41.760	1.732	5.147	1.685	1.682	-0.003	85%	8.079	0.096
x		39.730	1.769	5.294	1.793	1.719	-0.003	86%	7.556	0.108
σ		1.814	0.150	0.251	0.282	0.036	0.000	1%	0.635	0.041
%RSD		4.566	8.507	4.747	15.740	2.089	0.000	1	8.406	37.490
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:03:45	-1.289	7.680	0.093	0.214	0.465	0.506	3138.000	3139.000	99%
2	06:04:53	-1.544	6.789	0.062	0.224	0.395	0.349	3220.000	3222.000	98%
3	06:06:01	-2.201	8.016	0.080	0.304	0.382	0.250	3189.000	3213.000	98%
x		-1.678	7.495	0.079	0.247	0.414	0.368	3183.000	3191.000	98%
σ		0.470	0.634	0.016	0.049	0.044	0.129	41.120	45.190	1%
%RSD		28.030	8.463	19.760	19.860	10.710	35.000	1.292	1.416	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	06:03:45	99%	0.168	0.152	0.596	0.557	0.552	96%	6.447	
2	06:04:53	98%	0.060	0.070	0.532	0.553	0.533	96%	6.508	
3	06:06:01	99%	0.069	0.051	0.611	0.551	0.581	95%	6.588	
x		99%	0.099	0.091	0.580	0.554	0.555	96%	6.514	
σ		1%	0.060	0.054	0.042	0.003	0.024	0%	0.071	
%RSD		1	60.100	59.170	7.203	0.502	4.327	0	1.083	

C4464-05 MH3BA5

11/17/2011 06:10:30 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:11:38	84%	0.726	344.000	0.000	753900.000	28830.000	29420.000	29650.000	712.500
2	06:12:46	84%	0.624	348.700	0.000	769900.000	29450.000	29910.000	30070.000	720.500
3	06:13:54	87%	0.549	348.400	0.000	745600.000	28430.000	28970.000	29030.000	700.600
x		85%	0.633	347.000	0.000	756500.000	28910.000	29430.000	29580.000	711.200
$\sigma$		2%	0.089	2.602	0.000	12330.000	511.600	469.100	522.500	10.010
%RSD		2	14.020	0.750	0.000	1.630	1.770	1.594	1.766	1.407
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:11:38	13930.000	2203.000	0.000	0.000	19680.000	76650.000	76860.000	84%	440.800
2	06:12:46	14270.000	2292.000	0.000	0.000	20050.000	77920.000	78540.000	83%	443.000
3	06:13:54	13780.000	2183.000	0.000	0.000	19460.000	77100.000	76760.000	83%	430.900
x		13990.000	2226.000	0.000	0.000	19730.000	77220.000	77390.000	83%	438.200
$\sigma$		250.700	57.950	0.000	0.000	299.300	645.300	997.000	0%	6.412
%RSD		1.792	2.603	0.000	0.000	1.517	0.836	1.288	0	1.463
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:11:38	141.000	32.550	143.000	5978.000	4625.000	5967.000	6213.000	2.871	20.190
2	06:12:46	142.400	32.460	151.400	6107.000	4685.000	6031.000	6247.000	2.896	19.640
3	06:13:54	140.800	31.590	154.500	5953.000	4605.000	5919.000	6095.000	2.741	19.750
x		141.400	32.200	149.600	6013.000	4638.000	5972.000	6185.000	2.836	19.860
$\sigma$		0.853	0.529	5.958	82.860	41.650	56.140	79.690	0.084	0.291
%RSD		0.603	1.643	3.982	1.378	0.898	0.940	1.288	2.945	1.466
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:11:38	4.046	3.286	10.130	95.750	1.542	0.904	-1.190	1.544	3.377
2	06:12:46	4.115	3.379	10.420	97.200	1.662	0.885	-2.106	1.662	0.927
3	06:13:54	3.731	3.061	10.600	94.860	1.783	1.007	-2.498	1.781	-1.491
x		3.964	3.242	10.380	95.940	1.662	0.932	-1.931	1.662	0.938
$\sigma$		0.205	0.163	0.238	1.185	0.120	0.066	0.672	0.119	2.434
%RSD		5.160	5.036	2.288	1.235	7.235	7.037	34.780	7.133	259.600
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:11:38	96.040	2.423	10.960	2.510	2.154	0.007	82%	18.990	0.187
2	06:12:46	98.610	2.208	11.340	2.332	2.105	0.002	83%	21.550	0.141
3	06:13:54	97.820	2.231	10.960	2.068	2.050	-0.003	83%	14.710	0.105
x		97.490	2.287	11.090	2.303	2.103	0.002	83%	18.420	0.144
$\sigma$		1.314	0.118	0.218	0.222	0.052	0.005	0%	3.454	0.041
%RSD		1.348	5.169	1.962	9.639	2.468	222.600	1	18.750	28.360
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:11:38	-3.899	18.900	0.120	0.535	1.593	4.268	123.100	122.100	94%
2	06:12:46	-4.247	21.460	0.111	0.542	1.491	4.367	122.200	123.200	94%
3	06:13:54	-2.153	14.630	0.086	0.244	1.336	4.315	117.800	118.600	96%
x		-3.433	18.330	0.106	0.440	1.474	4.317	121.000	121.300	95%
$\sigma$		1.122	3.451	0.017	0.170	0.129	0.050	2.851	2.362	1%
%RSD		32.680	18.830	16.330	38.700	8.782	1.147	2.355	1.947	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	06:11:38	95%	0.021	0.008	1.631	1.643	1.665	92%	6.307	
2	06:12:46	95%	0.007	-0.012	1.695	1.631	1.661	93%	6.316	
3	06:13:54	96%	-0.042	-0.043	1.697	1.529	1.644	94%	6.162	
x		95%	-0.005	-0.015	1.675	1.601	1.656	93%	6.262	
$\sigma$		1%	0.033	0.026	0.037	0.063	0.011	1%	0.086	
%RSD		1	723.500	168.400	2.230	3.907	0.673	1	1.374	

C4464-09 MH3BA7 11/17/2011 06:18:23 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:19:31	85%	0.101	243.200	0.000	527700.000	20010.000	20420.000	20660.000	205.800
2	06:20:39	82%	0.098	260.700	0.000	539500.000	20360.000	20840.000	21050.000	211.100
3	06:21:47	83%	0.211	253.500	0.000	540800.000	20490.000	20930.000	21050.000	211.700
x		83%	0.137	252.400	0.000	536000.000	20290.000	20730.000	20920.000	209.500
$\sigma$		2%	0.064	8.782	0.000	7237.000	249.300	272.800	222.600	3.239
%RSD		2	47.000	3.479	0.000	1.350	1.229	1.316	1.064	1.546
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:19:31	16050.000	1424.000	0.000	0.000	10390.000	47390.000	47620.000	83%	124.000
2	06:20:39	16260.000	1439.000	0.000	0.000	10450.000	47640.000	47250.000	83%	118.600
3	06:21:47	16340.000	1450.000	0.000	0.000	10530.000	47630.000	48020.000	83%	124.900
x		16220.000	1438.000	0.000	0.000	10460.000	47560.000	47630.000	83%	122.500
$\sigma$		154.700	12.810	0.000	0.000	71.910	144.800	387.500	0%	3.368
%RSD		0.954	0.891	0.000	0.000	0.688	0.304	0.814	0	2.749
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:19:31	34.770	10.500	94.460	6556.000	4129.000	6507.000	6596.000	2.212	10.710
2	06:20:39	35.900	10.340	96.950	6572.000	4140.000	6502.000	6588.000	2.128	11.390
3	06:21:47	36.400	10.550	99.320	6673.000	4196.000	6611.000	6699.000	2.278	11.590
x		35.690	10.460	96.910	6600.000	4155.000	6540.000	6628.000	2.206	11.230
$\sigma$		0.835	0.109	2.427	63.240	35.620	61.530	62.000	0.075	0.461
%RSD		2.339	1.041	2.504	0.958	0.857	0.941	0.936	3.417	4.108
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:19:31	3.599	3.192	5.190	90.540	0.329	0.624	-3.261	0.328	-2.546
2	06:20:39	3.725	3.373	5.457	89.170	1.065	0.607	-3.073	1.061	-1.556
3	06:21:47	3.802	3.097	5.325	91.400	0.770	0.547	-2.641	0.768	-3.531
x		3.709	3.220	5.324	90.370	0.721	0.592	-2.992	0.719	-2.544
$\sigma$		0.102	0.140	0.133	1.124	0.371	0.040	0.318	0.369	0.987
%RSD		2.754	4.351	2.506	1.244	51.350	6.791	10.630	51.340	38.810
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:19:31	55.090	4.450	8.730	4.051	4.340	0.007	84%	7.370	0.099
2	06:20:39	55.610	4.125	9.197	4.559	4.325	-0.003	84%	8.697	0.103
3	06:21:47	58.710	4.298	9.676	4.669	4.325	-0.003	83%	10.860	0.105
x		56.470	4.291	9.201	4.426	4.330	0.001	84%	8.974	0.102
$\sigma$		1.958	0.162	0.473	0.330	0.009	0.005	0%	1.759	0.003
%RSD		3.467	3.784	5.139	7.445	0.198	1063.000	1	19.610	2.885
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:19:31	-1.583	7.321	0.065	0.278	0.319	0.864	189.400	189.200	94%
2	06:20:39	-1.104	8.644	0.023	0.241	0.312	0.742	187.500	187.300	95%
3	06:21:47	-1.830	10.790	0.016	0.217	0.424	0.655	191.800	190.300	94%
x		-1.506	8.920	0.035	0.245	0.351	0.754	189.600	188.900	94%
$\sigma$		0.369	1.753	0.027	0.031	0.063	0.105	2.140	1.549	0%
%RSD		24.520	19.660	76.890	12.510	17.870	13.870	1.129	0.820	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	06:19:31	95%	-0.043	-0.025	4.787	4.277	4.588	94%	1.317	
2	06:20:39	95%	-0.057	-0.057	4.663	4.266	4.481	94%	1.303	
3	06:21:47	96%	-0.057	-0.066	4.989	4.247	4.599	93%	1.265	
x		95%	-0.052	-0.049	4.813	4.263	4.556	94%	1.295	
$\sigma$		0%	0.008	0.022	0.165	0.015	0.065	1%	0.027	
%RSD		0	15.840	44.090	3.417	0.361	1.429	1	2.086	

C4464-10 MH3BA8 11/17/2011 06:26:17 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:27:24	82%	0.045	431.800	0.000	427600.000	14640.000	14860.000	14890.000	162.400
2	06:28:33	81%	0.101	425.600	0.000	432500.000	14790.000	14980.000	15050.000	160.800
3	06:29:41	85%	0.118	429.700	0.000	420700.000	14420.000	14650.000	14770.000	156.000
x		83%	0.088	429.000	0.000	427000.000	14620.000	14830.000	14900.000	159.700
$\sigma$		2%	0.038	3.169	0.000	5917.000	183.300	167.900	139.700	3.343
%RSD		2	43.350	0.739	0.000	1.386	1.254	1.132	0.938	2.093
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:27:24	15920.000	703.400	0.000	0.000	16630.000	47060.000	47370.000	81%	69.160
2	06:28:33	15850.000	728.400	0.000	0.000	16670.000	47090.000	47490.000	82%	70.170
3	06:29:41	15630.000	695.200	0.000	0.000	16360.000	46600.000	47240.000	83%	67.440
x		15800.000	709.000	0.000	0.000	16550.000	46920.000	47370.000	82%	68.920
$\sigma$		153.500	17.260	0.000	0.000	165.300	274.200	124.300	1%	1.380
%RSD		0.971	2.435	0.000	0.000	0.999	0.585	0.263	1	2.002
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:27:24	32.880	4.749	84.940	6506.000	3485.000	6459.000	6531.000	1.283	5.443
2	06:28:33	32.640	4.390	83.450	6545.000	3489.000	6471.000	6534.000	1.346	5.368
3	06:29:41	31.660	4.479	83.650	6483.000	3462.000	6385.000	6450.000	1.254	5.357
x		32.390	4.539	84.010	6511.000	3479.000	6438.000	6505.000	1.294	5.389
$\sigma$		0.650	0.187	0.806	31.130	14.770	46.800	47.510	0.047	0.047
%RSD		2.006	4.118	0.959	0.478	0.425	0.727	0.730	3.609	0.868
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:27:24	11.760	10.520	2.296	63.660	0.142	0.552	-3.442	0.141	1.031
2	06:28:33	11.820	11.820	2.947	62.260	-0.056	0.609	-3.632	-0.057	2.700
3	06:29:41	11.560	10.810	2.913	64.080	0.394	0.415	-4.141	0.393	1.224
x		11.710	11.050	2.719	63.340	0.160	0.525	-3.738	0.159	1.652
$\sigma$		0.137	0.681	0.367	0.952	0.225	0.100	0.362	0.225	0.913
%RSD		1.169	6.161	13.480	1.503	140.900	19.040	9.670	142.000	55.270
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:27:24	41.320	6.338	9.094	6.113	5.786	0.002	83%	6.402	0.129
2	06:28:33	41.310	6.073	9.448	6.041	6.077	-0.003	83%	4.334	0.108
3	06:29:41	43.120	5.851	9.213	5.968	6.064	-0.003	83%	5.444	0.054
x		41.920	6.087	9.252	6.041	5.975	-0.001	83%	5.393	0.097
$\sigma$		1.042	0.244	0.180	0.072	0.165	0.003	0%	1.035	0.039
%RSD		2.485	4.001	1.950	1.199	2.754	266.000	1	19.180	40.200
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:27:24	-1.232	6.353	0.093	0.272	0.195	0.594	137.500	136.100	93%
2	06:28:33	-0.374	4.291	0.058	0.064	0.302	0.504	135.100	133.800	93%
3	06:29:41	-0.696	5.396	0.065	0.114	0.263	0.468	135.000	135.600	94%
x		-0.767	5.346	0.072	0.150	0.253	0.522	135.800	135.200	93%
$\sigma$		0.433	1.032	0.018	0.108	0.054	0.065	1.424	1.175	1%
%RSD		56.500	19.310	25.560	72.080	21.350	12.390	1.048	0.870	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	06:27:24	94%	-0.031	-0.043	8.775	8.143	8.593	94%	0.407	
2	06:28:33	94%	-0.064	-0.057	9.180	8.324	8.703	95%	0.389	
3	06:29:41	95%	-0.071	-0.068	8.924	8.106	8.558	95%	0.364	
x		94%	-0.056	-0.056	8.960	8.191	8.618	94%	0.387	
$\sigma$		1%	0.021	0.013	0.205	0.117	0.076	0%	0.022	
%RSD		1	38.240	22.620	2.285	1.425	0.880	0	5.579	

C4464-11 MH3BA9 11/17/2011 06:34:11 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:35:19	84%	0.446	357.300	0.000	480400.000	17450.000	17700.000	17820.000	261.900
2	06:36:27	83%	0.226	370.000	0.000	479600.000	17310.000	17570.000	17710.000	258.500
3	06:37:35	85%	0.185	347.300	0.000	481000.000	17320.000	17630.000	17610.000	259.800
x		84%	0.286	358.200	0.000	480300.000	17360.000	17630.000	17710.000	260.100
$\sigma$		1%	0.140	11.390	0.000	728.600	78.550	64.850	103.800	1.711
%RSD		1	49.080	3.180	0.000	0.152	0.453	0.368	0.586	0.658
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:35:19	11660.000	725.500	0.000	0.000	16170.000	57110.000	56710.000	81%	57.870
2	06:36:27	11610.000	720.500	0.000	0.000	15930.000	55930.000	55600.000	83%	58.470
3	06:37:35	11580.000	737.900	0.000	0.000	16000.000	55810.000	56340.000	82%	57.080
x		11620.000	728.000	0.000	0.000	16030.000	56280.000	56220.000	82%	57.800
$\sigma$		41.660	8.953	0.000	0.000	122.600	719.200	568.400	1%	0.698
%RSD		0.359	1.230	0.000	0.000	0.764	1.278	1.011	1	1.207
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:35:19	31.110	3.420	73.740	3955.000	3310.000	3918.000	4125.000	0.614	5.344
2	06:36:27	31.050	3.277	72.460	3848.000	3228.000	3814.000	4014.000	0.613	5.764
3	06:37:35	31.870	3.361	73.290	3882.000	3269.000	3868.000	4060.000	0.635	5.823
x		31.350	3.353	73.160	3895.000	3269.000	3867.000	4067.000	0.621	5.644
$\sigma$		0.455	0.071	0.646	54.490	40.780	52.340	55.680	0.012	0.261
%RSD		1.451	2.130	0.883	1.399	1.248	1.354	1.369	2.008	4.629
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:35:19	5.686	5.061	4.066	42.030	0.364	0.384	-1.918	0.362	-1.693
2	06:36:27	5.236	4.766	3.733	42.210	-0.158	0.413	-2.212	-0.159	1.615
3	06:37:35	5.802	4.454	3.797	42.460	0.070	0.546	-2.631	0.069	-0.349
x		5.575	4.761	3.865	42.230	0.092	0.448	-2.254	0.091	-0.142
$\sigma$		0.299	0.304	0.177	0.218	0.262	0.087	0.358	0.261	1.664
%RSD		5.361	6.377	4.567	0.516	285.600	19.390	15.900	287.200	1170.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:35:19	22.940	0.871	2.498	0.738	0.716	-0.003	82%	2.457	0.052
2	06:36:27	22.240	0.547	2.441	0.691	0.744	-0.003	83%	4.583	0.046
3	06:37:35	23.710	0.840	2.582	0.713	0.716	0.002	82%	0.743	0.032
x		22.960	0.753	2.507	0.714	0.725	-0.001	82%	2.594	0.044
$\sigma$		0.736	0.179	0.071	0.023	0.016	0.003	0%	1.924	0.010
%RSD		3.203	23.770	2.846	3.264	2.235	268.300	1	74.160	24.070
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:35:19	0.199	2.412	0.038	-0.004	0.256	1.310	139.100	144.300	93%
2	06:36:27	-1.008	4.535	0.013	0.129	0.268	1.037	141.500	139.400	94%
3	06:37:35	0.385	0.700	-0.007	-0.015	0.175	1.039	140.300	143.700	93%
x		-0.141	2.549	0.015	0.037	0.233	1.128	140.300	142.500	94%
$\sigma$		0.756	1.921	0.022	0.080	0.051	0.157	1.176	2.669	0%
%RSD		534.500	75.360	153.400	219.600	21.730	13.900	0.839	1.873	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	06:35:19	94%	-0.036	-0.047	1.669	1.601	1.672	93%	2.152	
2	06:36:27	95%	-0.060	-0.055	1.784	1.555	1.694	94%	2.111	
3	06:37:35	94%	-0.055	-0.075	1.800	1.583	1.710	94%	2.148	
x		95%	-0.051	-0.059	1.751	1.580	1.692	94%	2.137	
$\sigma$		1%	0.012	0.014	0.071	0.024	0.019	1%	0.022	
%RSD		1	24.550	24.320	4.070	1.489	1.127	1	1.048	

C4464-04X25 MH3BA4

11/17/2011 06:42:06 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:43:14	89%	0.116	20.430	0.000	30430.000	5942.000	5973.000	6056.000	-1.919
2	06:44:21	86%	-0.019	17.590	0.000	31260.000	6058.000	6112.000	6177.000	-1.916
3	06:45:29	86%	-0.069	16.950	0.000	31690.000	6154.000	6178.000	6288.000	-1.147
x		87%	0.009	18.320	0.000	31130.000	6051.000	6088.000	6174.000	-1.661
$\sigma$		1%	0.096	1.850	0.000	637.600	106.600	105.000	115.700	0.445
%RSD		2	1016.000	10.100	0.000	2.048	1.761	1.725	1.874	26.790
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:43:14	688.300	88.700	0.000	0.000	989.300	11480.000	11620.000	85%	1.131
2	06:44:21	707.800	88.020	0.000	0.000	992.600	11640.000	11640.000	84%	1.639
3	06:45:29	709.000	88.560	0.000	0.000	1027.000	11580.000	11800.000	84%	0.802
x		701.700	88.430	0.000	0.000	1003.000	11570.000	11690.000	84%	1.191
$\sigma$		11.670	0.358	0.000	0.000	20.880	77.240	98.700	1%	0.421
%RSD		1.663	0.404	0.000	0.000	2.082	0.668	0.845	1	35.390
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:43:14	0.785	0.246	34.940	705.400	365.300	719.000	762.300	0.048	0.505
2	06:44:21	-0.132	0.251	34.750	711.100	367.600	720.700	752.500	0.051	0.420
3	06:45:29	0.637	0.405	34.710	724.300	375.500	737.000	777.200	0.046	0.425
x		0.430	0.301	34.800	713.600	369.500	725.600	764.000	0.048	0.450
$\sigma$		0.492	0.091	0.126	9.739	5.373	9.956	12.440	0.003	0.047
%RSD		114.400	30.140	0.363	1.365	1.454	1.372	1.628	5.263	10.520
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:43:14	0.269	0.020	-0.065	1.697	0.075	0.164	-2.932	0.069	-2.618
2	06:44:21	0.244	-0.015	-0.200	0.959	-0.339	0.217	-2.304	-0.341	0.704
3	06:45:29	0.192	0.048	0.028	1.411	-0.039	0.196	-2.045	-0.044	-0.889
x		0.235	0.018	-0.079	1.356	-0.101	0.192	-2.427	-0.105	-0.934
$\sigma$		0.039	0.031	0.115	0.372	0.214	0.027	0.456	0.212	1.661
%RSD		16.710	176.100	144.400	27.440	211.000	13.800	18.800	201.500	177.800
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:43:14	1.854	0.126	0.195	0.096	0.152	0.006	90%	-0.847	-0.039
2	06:44:21	1.637	0.029	0.266	0.030	0.024	0.002	89%	-0.133	-0.046
3	06:45:29	1.604	-0.021	0.153	0.053	0.064	0.002	89%	-0.120	-0.046
x		1.698	0.045	0.205	0.060	0.080	0.003	89%	-0.366	-0.044
$\sigma$		0.136	0.075	0.057	0.033	0.066	0.003	1%	0.416	0.004
%RSD		8.012	166.200	27.820	55.590	81.930	76.710	1	113.500	9.228
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:43:14	0.422	-0.873	-0.035	-0.111	-0.035	-0.206	127.100	126.800	97%
2	06:44:21	-0.017	-0.161	-0.035	-0.058	-0.030	-0.306	125.900	125.600	97%
3	06:45:29	0.048	-0.146	-0.035	-0.044	-0.041	-0.346	128.600	127.700	96%
x		0.151	-0.393	-0.035	-0.071	-0.035	-0.286	127.200	126.700	97%
$\sigma$		0.237	0.415	0.000	0.035	0.006	0.072	1.314	1.068	1%
%RSD		156.900	105.600	0.337	49.680	15.800	25.240	1.033	0.843	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	06:43:14	98%	-0.077	-0.079	0.029	0.031	0.023	101%	0.223	
2	06:44:21	98%	-0.071	-0.086	-0.017	0.047	0.009	100%	0.213	
3	06:45:29	96%	-0.067	-0.072	-0.025	0.077	0.014	100%	0.219	
x		97%	-0.072	-0.079	-0.004	0.051	0.015	100%	0.219	
$\sigma$		1%	0.005	0.007	0.029	0.023	0.007	0%	0.005	
%RSD		1	6.721	8.861	665.000	45.440	43.720	0	2.311	

C4464-05X25 MH3BA5 11/17/2011 06:50:01 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:51:08	86%	-0.002	15.170	0.000	30580.000	1189.000	1198.000	1204.000	27.830
2	06:52:17	86%	-0.034	18.370	0.000	31030.000	1209.000	1225.000	1221.000	27.920
3	06:53:25	86%	0.030	15.710	0.000	30280.000	1177.000	1183.000	1203.000	26.080
x		86%	-0.002	16.410	0.000	30630.000	1192.000	1202.000	1209.000	27.280
$\sigma$		0%	0.032	1.713	0.000	376.200	16.350	21.240	10.400	1.037
%RSD		0	1657.000	10.440	0.000	1.228	1.372	1.767	0.860	3.803
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:51:08	548.900	85.580	0.000	0.000	843.800	3245.000	3186.000	82%	19.300
2	06:52:17	575.700	88.990	0.000	0.000	862.900	3182.000	3309.000	81%	18.540
3	06:53:25	546.200	91.780	0.000	0.000	840.600	3271.000	3217.000	81%	18.320
x		556.900	88.790	0.000	0.000	849.100	3232.000	3237.000	81%	18.720
$\sigma$		16.290	3.107	0.000	0.000	12.050	45.650	63.780	1%	0.514
%RSD		2.925	3.499	0.000	0.000	1.419	1.412	1.970	1	2.748
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:51:08	5.043	1.232	35.190	224.800	191.400	231.200	260.200	0.099	0.965
2	06:52:17	5.704	1.420	34.600	236.600	194.100	234.500	260.500	0.088	0.886
3	06:53:25	3.926	1.217	35.550	224.600	189.600	227.100	257.400	0.090	0.732
x		4.891	1.290	35.110	228.700	191.700	230.900	259.400	0.093	0.861
$\sigma$		0.899	0.113	0.478	6.851	2.273	3.716	1.733	0.005	0.119
%RSD		18.370	8.755	1.363	2.996	1.186	1.609	0.668	5.934	13.780
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:51:08	0.287	0.159	0.387	3.803	0.281	0.205	-2.606	0.273	-3.021
2	06:52:17	0.256	0.110	0.291	4.227	0.499	0.148	-2.199	0.490	0.428
3	06:53:25	0.328	0.096	0.470	3.531	-0.321	0.209	-3.545	-0.324	-2.046
x		0.290	0.122	0.383	3.854	0.153	0.188	-2.783	0.146	-1.546
$\sigma$		0.036	0.033	0.089	0.351	0.425	0.034	0.691	0.422	1.778
%RSD		12.480	27.180	23.350	9.105	277.500	18.210	24.810	288.100	115.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:51:08	3.626	0.034	0.468	0.059	0.079	0.002	87%	0.445	-0.016
2	06:52:17	3.614	0.007	0.426	0.049	0.109	-0.003	86%	-0.602	-0.036
3	06:53:25	3.685	-0.018	0.370	0.092	0.032	-0.003	88%	-0.988	0.003
x		3.641	0.008	0.421	0.067	0.073	-0.001	87%	-0.382	-0.016
$\sigma$		0.038	0.026	0.049	0.023	0.039	0.003	1%	0.741	0.019
%RSD		1.052	326.000	11.710	33.780	52.550	235.600	1	194.200	116.600
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:51:08	-0.115	0.418	-0.024	-0.013	0.080	-0.012	4.862	4.620	94%
2	06:52:17	0.326	-0.630	-0.019	-0.044	0.051	-0.122	4.775	4.648	94%
3	06:53:25	0.558	-1.015	0.003	-0.095	0.041	-0.145	4.861	4.704	95%
x		0.256	-0.409	-0.014	-0.051	0.057	-0.093	4.833	4.657	95%
$\sigma$		0.342	0.742	0.014	0.041	0.021	0.071	0.050	0.043	1%
%RSD		133.500	181.400	105.900	81.450	35.970	76.280	1.029	0.919	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	06:51:08	95%	-0.049	-0.051	0.026	0.086	0.071	98%	0.214	
2	06:52:17	95%	-0.073	-0.065	0.018	0.035	0.043	97%	0.212	
3	06:53:25	96%	-0.036	-0.052	0.080	0.066	0.074	99%	0.191	
x		95%	-0.052	-0.056	0.041	0.062	0.063	98%	0.206	
$\sigma$		1%	0.019	0.008	0.033	0.026	0.017	1%	0.013	
%RSD		1	36.430	13.880	81.040	41.510	27.540	1	6.363	

C4464-09X25 MH3BA7

11/17/2011 06:57:56 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:04	83%	0.059	10.470	0.000	22360.000	860.400	855.700	869.900	6.179
2	07:00:12	82%	0.062	12.200	0.000	21660.000	836.200	833.200	831.400	7.163
3	07:01:20	84%	0.141	15.240	0.000	21910.000	840.200	853.800	859.300	7.318
x		83%	0.087	12.640	0.000	21970.000	845.600	847.600	853.500	6.887
$\sigma$		1%	0.047	2.417	0.000	354.300	12.980	12.440	19.860	0.618
%RSD		1	53.460	19.130	0.000	1.612	1.535	1.468	2.326	8.968
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:04	666.100	51.610	0.000	0.000	467.800	2064.000	2042.000	81%	4.471
2	07:00:12	630.100	59.640	0.000	0.000	434.800	1986.000	1897.000	83%	4.327
3	07:01:20	645.400	54.700	0.000	0.000	458.300	2073.000	1982.000	81%	5.214
x		647.200	55.320	0.000	0.000	453.600	2041.000	1973.000	81%	4.671
$\sigma$		18.110	4.051	0.000	0.000	16.980	47.700	72.690	1%	0.476
%RSD		2.798	7.323	0.000	0.000	3.742	2.337	3.683	1	10.190
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:04	1.213	0.438	28.370	252.600	174.400	259.000	273.100	0.072	0.605
2	07:00:12	0.962	0.439	26.650	249.800	165.600	243.700	260.500	0.050	0.443
3	07:01:20	1.262	0.359	26.380	258.000	171.600	253.100	267.700	0.067	0.747
x		1.145	0.412	27.130	253.500	170.500	252.000	267.100	0.063	0.598
$\sigma$		0.161	0.046	1.079	4.174	4.534	7.717	6.271	0.012	0.152
%RSD		14.050	11.130	3.975	1.646	2.659	3.063	2.348	18.650	25.440
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:04	0.348	0.063	0.342	3.475	-0.152	0.161	-2.615	-0.156	-3.944
2	07:00:12	0.317	0.076	0.360	3.650	-0.060	0.088	-3.268	-0.064	-1.110
3	07:01:20	0.199	0.036	0.575	3.794	-0.063	0.117	-2.922	-0.068	-2.993
x		0.288	0.058	0.426	3.640	-0.092	0.122	-2.935	-0.096	-2.682
$\sigma$		0.078	0.020	0.130	0.160	0.052	0.037	0.327	0.052	1.442
%RSD		27.240	34.280	30.550	4.388	57.210	30.150	11.130	54.160	53.770
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:04	2.542	0.209	0.345	0.169	0.110	-0.003	86%	-0.950	-0.016
2	07:00:12	2.111	0.025	0.354	0.103	0.130	-0.003	88%	-1.005	-0.026
3	07:01:20	2.217	0.212	0.395	0.095	0.165	-0.003	87%	-0.536	-0.004
x		2.290	0.149	0.365	0.122	0.135	-0.003	87%	-0.831	-0.015
$\sigma$		0.224	0.107	0.026	0.041	0.028	0.000	1%	0.256	0.011
%RSD		9.795	71.920	7.230	33.270	20.820	0.000	1	30.850	72.050
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:04	0.473	-0.977	-0.027	-0.095	0.028	-0.112	7.196	7.516	93%
2	07:00:12	0.493	-1.033	-0.022	-0.054	0.010	-0.294	7.221	6.912	96%
3	07:01:20	0.225	-0.563	0.001	0.012	-0.016	-0.260	7.739	7.059	94%
x		0.397	-0.857	-0.016	-0.046	0.007	-0.222	7.385	7.162	94%
$\sigma$		0.149	0.257	0.015	0.054	0.022	0.096	0.307	0.315	1%
%RSD		37.680	29.950	91.560	117.500	301.600	43.450	4.154	4.396	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	06:59:04	94%	-0.046	-0.061	0.161	0.123	0.175	97%	0.031	
2	07:00:12	96%	-0.044	-0.054	0.162	0.132	0.156	100%	0.026	
3	07:01:20	95%	-0.049	-0.051	0.166	0.126	0.154	99%	0.038	
x		95%	-0.046	-0.055	0.163	0.127	0.162	99%	0.032	
$\sigma$		1%	0.002	0.005	0.003	0.005	0.012	1%	0.006	
%RSD		1	5.357	9.702	1.702	3.562	7.196	1	18.500	

C4464-10X25 MH3BA8

11/17/2011 07:05:52 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:00	84%	0.125	17.550	0.000	17870.000	615.100	619.500	619.000	5.560
2	07:08:07	83%	0.126	18.860	0.000	17570.000	600.800	615.900	605.000	4.884
3	07:09:15	84%	0.020	18.290	0.000	17350.000	603.500	609.400	608.800	3.910
x		84%	0.090	18.230	0.000	17600.000	606.500	614.900	611.000	4.785
$\sigma$		1%	0.061	0.658	0.000	259.900	7.626	5.096	7.254	0.829
%RSD		1	67.470	3.610	0.000	1.477	1.257	0.829	1.187	17.330
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:00	641.800	27.820	0.000	0.000	730.600	2044.000	2064.000	80%	3.408
2	07:08:07	628.900	33.900	0.000	0.000	711.900	1934.000	1990.000	81%	2.819
3	07:09:15	635.600	26.340	0.000	0.000	708.100	1988.000	2002.000	81%	3.407
x		635.500	29.350	0.000	0.000	716.900	1989.000	2019.000	81%	3.211
$\sigma$		6.428	4.003	0.000	0.000	12.030	55.100	39.780	1%	0.340
%RSD		1.012	13.640	0.000	0.000	1.678	2.770	1.970	1	10.570
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:00	2.274	0.052	23.350	260.500	148.000	258.900	283.900	0.038	0.386
2	07:08:07	1.642	0.147	23.090	239.200	143.600	247.300	272.600	0.005	0.385
3	07:09:15	1.328	0.111	23.340	244.100	144.000	249.000	272.900	0.025	0.178
x		1.748	0.104	23.260	247.900	145.200	251.700	276.500	0.023	0.316
$\sigma$		0.482	0.048	0.146	11.130	2.444	6.226	6.417	0.017	0.120
%RSD		27.600	46.660	0.629	4.489	1.683	2.473	2.321	73.720	37.870
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:00	0.554	0.321	0.896	2.356	-0.347	0.189	-3.368	-0.350	0.184
2	07:08:07	0.497	0.343	0.957	1.845	-0.556	0.192	-3.633	-0.557	0.404
3	07:09:15	0.659	0.350	0.929	2.835	-0.251	0.109	-2.496	-0.255	-1.303
x		0.570	0.338	0.927	2.345	-0.385	0.163	-3.166	-0.387	-0.239
$\sigma$		0.082	0.015	0.031	0.495	0.156	0.047	0.595	0.155	0.928
%RSD		14.380	4.414	3.293	21.120	40.530	28.690	18.780	39.920	389.300
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:00	1.611	0.300	0.320	0.230	0.222	-0.003	86%	-1.043	-0.023
2	07:08:07	1.749	0.170	0.288	0.096	0.209	-0.003	86%	0.913	-0.028
3	07:09:15	1.134	0.132	0.307	0.154	0.239	0.002	87%	-0.641	-0.028
x		1.498	0.201	0.305	0.160	0.223	-0.001	86%	-0.257	-0.027
$\sigma$		0.323	0.089	0.016	0.067	0.015	0.003	1%	1.033	0.003
%RSD		21.550	44.120	5.342	41.900	6.808	238.600	1	401.700	11.360
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:00	0.438	-1.069	-0.029	-0.079	0.021	-0.212	5.334	5.336	93%
2	07:08:07	-0.456	0.884	-0.019	0.006	0.008	-0.307	5.536	5.249	94%
3	07:09:15	0.342	-0.668	-0.027	-0.068	-0.031	-0.294	5.104	5.216	94%
x		0.108	-0.284	-0.025	-0.047	-0.001	-0.271	5.325	5.267	94%
$\sigma$		0.491	1.031	0.005	0.046	0.027	0.051	0.216	0.062	1%
%RSD		454.100	362.700	20.730	98.760	4215.000	18.990	4.062	1.178	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:07:00	94%	-0.042	-0.065	0.319	0.298	0.330	98%	-0.005	
2	07:08:07	95%	-0.039	-0.074	0.318	0.239	0.303	98%	-0.017	
3	07:09:15	95%	-0.061	-0.052	0.337	0.279	0.313	99%	-0.018	
x		95%	-0.047	-0.064	0.325	0.272	0.315	98%	-0.013	
$\sigma$		1%	0.012	0.011	0.011	0.030	0.014	1%	0.007	
%RSD		1	25.530	17.020	3.317	11.200	4.337	1	55.950	

C4464-11X25 MH3BA9

11/17/2011 07:13:47 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:14:55	84%	0.020	17.030	0.000	19390.000	710.100	704.500	715.400	8.238
2	07:16:03	81%	0.016	18.760	0.000	19820.000	724.400	726.000	725.600	10.390
3	07:17:11	81%	0.033	18.070	0.000	20010.000	727.200	724.800	738.200	11.170
x		82%	0.023	17.950	0.000	19740.000	720.600	718.400	726.400	9.933
$\sigma$		2%	0.009	0.872	0.000	319.000	9.175	12.090	11.420	1.519
%RSD		2	37.860	4.855	0.000	1.616	1.273	1.683	1.572	15.290
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:14:55	438.900	25.300	0.000	0.000	679.700	2284.000	2264.000	80%	1.584
2	07:16:03	473.900	22.050	0.000	0.000	685.200	2261.000	2305.000	80%	1.883
3	07:17:11	466.900	32.760	0.000	0.000	701.600	2290.000	2346.000	80%	2.435
x		459.900	26.700	0.000	0.000	688.800	2278.000	2305.000	80%	1.967
$\sigma$		18.550	5.493	0.000	0.000	11.420	15.320	41.250	0%	0.432
%RSD		4.033	20.570	0.000	0.000	1.657	0.672	1.790	1	21.950
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:14:55	0.074	-0.011	23.160	141.100	133.500	134.500	162.700	-0.007	0.295
2	07:16:03	0.780	0.019	21.340	132.900	132.700	136.500	163.800	-0.018	0.163
3	07:17:11	2.165	0.045	20.370	144.500	134.800	139.500	161.400	-0.002	0.340
x		1.006	0.018	21.630	139.500	133.700	136.800	162.600	-0.009	0.266
$\sigma$		1.064	0.028	1.419	5.981	1.092	2.515	1.195	0.008	0.092
%RSD		105.700	159.300	6.560	4.288	0.817	1.838	0.735	87.960	34.480
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:14:55	0.337	0.063	0.292	1.831	0.165	0.084	-3.178	0.157	-4.304
2	07:16:03	0.391	0.166	0.257	1.505	0.237	0.143	-3.327	0.229	-2.940
3	07:17:11	0.236	0.140	0.628	1.984	0.089	0.075	-2.836	0.083	2.281
x		0.321	0.123	0.393	1.773	0.164	0.101	-3.114	0.156	-1.654
$\sigma$		0.079	0.054	0.205	0.245	0.074	0.037	0.252	0.073	3.476
%RSD		24.480	43.580	52.170	13.800	45.430	36.590	8.079	46.940	210.100
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:14:55	1.020	0.095	0.046	-0.022	-0.006	-0.003	87%	0.624	-0.038
2	07:16:03	0.959	-0.104	0.137	-0.069	-0.001	0.007	86%	-0.865	-0.033
3	07:17:11	0.975	-0.095	0.078	-0.031	-0.034	0.002	85%	-2.022	-0.008
x		0.985	-0.035	0.087	-0.041	-0.014	0.002	86%	-0.754	-0.027
$\sigma$		0.032	0.113	0.046	0.025	0.018	0.005	1%	1.326	0.016
%RSD		3.220	325.300	52.640	61.020	134.900	231.500	1	175.900	61.120
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:14:55	-0.335	0.597	-0.047	0.025	-0.016	-0.184	5.399	5.541	94%
2	07:16:03	0.437	-0.893	-0.022	-0.091	-0.004	-0.267	5.040	5.347	94%
3	07:17:11	0.999	-2.049	-0.008	-0.147	-0.002	-0.315	5.649	5.576	93%
x		0.367	-0.782	-0.026	-0.071	-0.007	-0.255	5.363	5.488	94%
$\sigma$		0.670	1.326	0.020	0.087	0.007	0.067	0.306	0.123	1%
%RSD		182.600	169.700	76.160	123.300	106.200	26.090	5.701	2.248	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:14:55	95%	-0.052	-0.061	0.036	0.017	0.040	98%	0.059	
2	07:16:03	95%	-0.028	-0.042	0.033	0.036	0.040	99%	0.063	
3	07:17:11	94%	-0.056	-0.055	0.045	0.037	0.036	98%	0.072	
x		95%	-0.045	-0.053	0.038	0.030	0.038	98%	0.065	
$\sigma$		1%	0.015	0.010	0.006	0.011	0.002	0%	0.006	
%RSD		1	32.280	18.320	15.830	37.540	5.132	0	9.886	

CCV47 11/17/2011 07:21:42 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:22:50	82%	506.300	513.300	0.000	50780.000	49920.000	51210.000	50470.000	9643.000
2	07:23:58	82%	514.900	502.700	0.000	51460.000	50470.000	51990.000	51160.000	9744.000
3	07:25:06	83%	502.100	492.500	0.000	50570.000	49490.000	50980.000	50080.000	9529.000
x		83%	507.800	502.800	0.000	50940.000	49960.000	51400.000	50570.000	9639.000
$\sigma$		1%	6.533	10.420	0.000	467.400	491.100	530.300	547.500	107.600
%RSD		1	1.287	2.072	0.000	0.918	0.983	1.032	1.083	1.117
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:22:50	501.600	9781.000	0.000	0.000	25110.000	52070.000	51270.000	80%	501.700
2	07:23:58	506.100	9878.000	0.000	0.000	25450.000	51900.000	52000.000	79%	515.700
3	07:25:06	491.900	9701.000	0.000	0.000	24800.000	50560.000	50900.000	81%	490.600
x		499.900	9787.000	0.000	0.000	25120.000	51510.000	51390.000	80%	502.700
$\sigma$		7.283	88.370	0.000	0.000	327.900	827.800	561.200	1%	12.550
%RSD		1.457	0.903	0.000	0.000	1.305	1.607	1.092	1	2.497
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:22:50	501.800	509.800	19.000	26090.000	1028.000	25610.000	25710.000	505.600	507.000
2	07:23:58	510.200	513.800	15.980	26510.000	1037.000	25880.000	25980.000	510.800	507.700
3	07:25:06	497.500	502.600	14.570	25920.000	1023.000	25540.000	25510.000	500.300	501.700
x		503.200	508.700	16.520	26170.000	1030.000	25680.000	25730.000	505.600	505.500
$\sigma$		6.459	5.675	2.263	304.900	6.713	178.900	235.200	5.254	3.296
%RSD		1.284	1.116	13.700	1.165	0.652	0.697	0.914	1.039	0.652
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:22:50	1013.000	1013.000	1045.000	499.600	503.100	0.312	509.800	500.700	-0.659
2	07:23:58	1019.000	1013.000	1050.000	508.400	518.300	-0.355	512.100	514.900	1.356
3	07:25:06	1006.000	1003.000	1029.000	505.800	523.200	-1.116	506.200	520.600	3.287
x		1013.000	1010.000	1041.000	504.600	514.800	-0.386	509.400	512.100	1.328
$\sigma$		6.224	5.955	10.910	4.550	10.490	0.714	2.976	10.250	1.973
%RSD		0.615	0.590	1.048	0.902	2.037	184.900	0.584	2.002	148.600
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:22:50	506.300	505.800	505.900	509.100	503.600	0.007	83%	534.500	515.100
2	07:23:58	506.400	506.300	504.100	498.800	505.900	-0.003	84%	533.700	515.800
3	07:25:06	503.700	503.400	501.100	502.200	502.000	-0.003	84%	515.500	507.600
x		505.500	505.200	503.700	503.400	503.800	0.001	84%	527.900	512.800
$\sigma$		1.506	1.532	2.420	5.208	1.940	0.006	1%	10.730	4.554
%RSD		0.298	0.303	0.480	1.035	0.385	1003.000	1	2.033	0.888
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:22:50	4.880	533.500	520.400	526.800	522.200	518.300	2513.000	2521.000	93%
2	07:23:58	6.157	532.900	513.200	517.600	516.500	518.500	2519.000	2518.000	94%
3	07:25:06	16.700	514.600	509.500	520.200	515.000	513.900	2482.000	2504.000	95%
x		9.245	527.000	514.400	521.500	517.900	516.900	2504.000	2514.000	94%
$\sigma$		6.486	10.760	5.522	4.710	3.806	2.569	19.860	9.259	1%
%RSD		70.160	2.042	1.074	0.903	0.735	0.497	0.793	0.368	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:22:50	94%	507.700	509.000	508.200	511.400	510.300	95%	517.700	
2	07:23:58	95%	509.200	507.700	509.000	511.900	510.100	96%	514.500	
3	07:25:06	97%	503.300	502.800	503.700	502.500	502.700	98%	504.700	
x		95%	506.700	506.500	507.000	508.600	507.700	96%	512.300	
$\sigma$		1%	3.088	3.265	2.883	5.261	4.326	1%	6.749	
%RSD		2	0.609	0.645	0.569	1.034	0.852	1	1.317	

CCB47 11/17/2011 07:29:35 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:30:43	86%	0.324	8.784	0.000	197.000	22.090	19.930	21.860	3.322
2	07:31:51	87%	0.349	7.439	0.000	193.900	15.120	12.450	14.990	2.257
3	07:32:59	85%	0.302	4.844	0.000	216.800	19.240	17.880	19.500	3.034
x		86%	0.325	7.022	0.000	202.600	18.820	16.750	18.780	2.871
$\sigma$		1%	0.023	2.003	0.000	12.410	3.506	3.864	3.492	0.551
%RSD		2	7.149	28.520	0.000	6.125	18.630	23.070	18.590	19.190
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:30:43	1.479	6.016	0.000	0.000	20.620	8.262	23.030	84%	0.088
2	07:31:51	0.102	0.610	0.000	0.000	17.870	16.700	18.660	83%	0.027
3	07:32:59	1.542	9.055	0.000	0.000	27.690	7.248	19.820	82%	0.110
x		1.041	5.227	0.000	0.000	22.060	10.740	20.500	83%	0.075
$\sigma$		0.814	4.277	0.000	0.000	5.070	5.189	2.264	1%	0.043
%RSD		78.200	81.830	0.000	0.000	22.980	48.330	11.040	1	57.190
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:30:43	-0.344	0.116	13.590	-2.627	0.403	-8.673	20.560	0.169	0.417
2	07:31:51	-0.440	0.133	13.540	-7.664	0.297	-13.440	14.060	0.100	0.213
3	07:32:59	0.502	0.175	12.340	-3.478	0.322	-13.490	11.910	0.116	0.291
x		-0.094	0.141	13.160	-4.590	0.341	-11.870	15.510	0.128	0.307
$\sigma$		0.519	0.030	0.708	2.696	0.055	2.764	4.501	0.036	0.103
%RSD		552.700	21.320	5.380	58.750	16.130	23.300	29.020	28.010	33.440
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:30:43	0.472	0.200	0.181	-0.090	0.003	0.104	-1.532	-0.002	0.739
2	07:31:51	0.371	0.151	-0.036	-0.152	0.644	0.132	-2.696	0.634	1.473
3	07:32:59	0.458	0.232	0.077	0.072	0.233	0.086	-1.941	0.224	-0.470
x		0.434	0.194	0.074	-0.057	0.293	0.107	-2.056	0.285	0.581
$\sigma$		0.055	0.040	0.108	0.116	0.325	0.023	0.591	0.322	0.981
%RSD		12.580	20.830	146.100	204.900	110.800	21.620	28.730	113.000	169.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:30:43	1.841	1.595	1.543	1.772	1.731	-0.003	89%	-0.009	0.235
2	07:31:51	1.270	1.280	1.230	1.391	1.458	0.002	88%	-0.827	0.115
3	07:32:59	1.399	1.064	1.076	1.138	1.010	-0.003	89%	-1.577	0.251
x		1.503	1.313	1.283	1.434	1.400	-0.001	89%	-0.804	0.200
$\sigma$		0.299	0.267	0.238	0.319	0.364	0.003	0%	0.784	0.075
%RSD		19.920	20.310	18.520	22.250	26.000	227.000	0	97.500	37.230
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:30:43	-0.070	-0.035	0.220	0.334	0.841	1.118	1.441	1.446	96%
2	07:31:51	0.345	-0.852	0.150	0.017	0.610	0.638	0.995	1.057	96%
3	07:32:59	0.589	-1.602	0.207	0.073	0.579	0.405	0.841	0.913	96%
x		0.288	-0.830	0.192	0.141	0.676	0.720	1.092	1.138	96%
$\sigma$		0.333	0.784	0.037	0.169	0.143	0.364	0.311	0.276	0%
%RSD		115.600	94.450	19.320	119.500	21.140	50.480	28.510	24.220	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:30:43	97%	0.216	0.183	0.205	0.196	0.215	101%	0.211	
2	07:31:51	96%	0.106	0.098	0.171	0.136	0.143	100%	0.131	
3	07:32:59	97%	0.180	0.190	0.135	0.170	0.167	101%	0.155	
x		97%	0.167	0.157	0.170	0.167	0.175	101%	0.166	
$\sigma$		1%	0.056	0.051	0.035	0.030	0.037	1%	0.041	
%RSD		1	33.690	32.350	20.650	18.080	21.020	1	24.730	

C4464-16 MH3BB4

11/17/2011 07:37:28 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:38:36	77%	0.379	253.700	0.000	657200.000	17320.000	17470.000	17640.000	268.000
2	07:39:44	78%	0.321	242.100	0.000	662600.000	17520.000	17700.000	17680.000	268.800
3	07:40:52	83%	0.216	260.800	0.000	630200.000	16730.000	16890.000	16940.000	255.000
x		79%	0.305	252.200	0.000	650000.000	17190.000	17350.000	17420.000	263.900
σ		3%	0.083	9.445	0.000	17370.000	409.900	418.200	417.000	7.759
%RSD		4	27.100	3.745	0.000	2.672	2.385	2.410	2.394	2.940
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:38:36	10180.000	2812.000	0.000	0.000	7161.000	39820.000	39710.000	77%	211.300
2	07:39:44	10260.000	2835.000	0.000	0.000	7213.000	40190.000	39960.000	78%	207.800
3	07:40:52	9910.000	2731.000	0.000	0.000	7026.000	38870.000	39150.000	79%	207.700
x		10120.000	2792.000	0.000	0.000	7133.000	39620.000	39610.000	78%	208.900
σ		182.300	54.630	0.000	0.000	96.950	679.100	414.700	1%	2.010
%RSD		1.802	1.956	0.000	0.000	1.359	1.714	1.047	2	0.962
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:38:36	66.430	12.970	123.900	2222.000	1194.000	2269.000	2357.000	1.285	13.820
2	07:39:44	68.460	13.240	122.200	2229.000	1192.000	2272.000	2368.000	1.237	13.780
3	07:40:52	67.230	13.200	116.800	2141.000	1166.000	2215.000	2311.000	1.202	13.550
x		67.370	13.140	121.000	2198.000	1184.000	2252.000	2345.000	1.241	13.720
σ		1.026	0.147	3.681	48.760	15.650	32.270	30.180	0.042	0.148
%RSD		1.523	1.120	3.043	2.219	1.322	1.433	1.287	3.353	1.078
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:38:36	2.890	2.496	7.053	109.300	0.983	0.662	-2.134	0.977	0.548
2	07:39:44	2.822	2.289	6.678	110.800	1.107	0.567	-3.039	1.103	1.935
3	07:40:52	2.854	2.363	6.418	106.900	2.220	0.725	-2.475	2.214	0.284
x		2.855	2.383	6.716	109.000	1.437	0.652	-2.549	1.431	0.922
σ		0.034	0.105	0.319	1.949	0.681	0.080	0.457	0.681	0.887
%RSD		1.187	4.393	4.751	1.788	47.410	12.220	17.940	47.550	96.120
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:38:36	113.300	5.399	15.260	5.762	5.663	0.002	78%	18.070	0.243
2	07:39:44	110.700	5.576	14.600	5.196	5.247	-0.003	79%	21.020	0.181
3	07:40:52	111.000	5.213	14.470	4.938	4.909	-0.003	80%	16.690	0.142
x		111.700	5.396	14.780	5.299	5.273	-0.001	79%	18.590	0.189
σ		1.410	0.182	0.425	0.422	0.378	0.003	1%	2.213	0.051
%RSD		1.262	3.365	2.874	7.955	7.160	304.600	1	11.900	26.990
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:38:36	-3.484	17.980	0.155	0.647	1.001	2.285	493.100	494.500	90%
2	07:39:44	-3.782	20.930	0.144	0.538	0.980	2.003	497.200	502.800	90%
3	07:40:52	-3.226	16.610	0.086	0.528	0.812	1.949	486.600	488.800	92%
x		-3.497	18.510	0.128	0.571	0.931	2.079	492.300	495.400	91%
σ		0.278	2.209	0.037	0.066	0.104	0.180	5.344	7.035	1%
%RSD		7.952	11.940	28.860	11.580	11.120	8.678	1.086	1.420	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:38:36	91%	0.130	0.148	2.262	2.146	2.238	90%	3.607	
2	07:39:44	91%	0.042	0.053	2.301	2.143	2.213	90%	3.547	
3	07:40:52	93%	0.010	-0.007	2.233	2.075	2.142	92%	3.469	
x		92%	0.061	0.065	2.265	2.121	2.198	91%	3.541	
σ		1%	0.062	0.078	0.034	0.040	0.050	1%	0.069	
%RSD		1	101.800	120.300	1.518	1.886	2.271	1	1.955	

C4464-06 MH3BA6 11/17/2011 07:45:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:46:29	81%	0.175	256.000	0.000	671800.000	19330.000	19570.000	19650.000	216.800
2	07:47:37	81%	0.207	256.000	0.000	669200.000	19170.000	19390.000	19450.000	213.600
3	07:48:45	80%	0.197	267.400	0.000	684100.000	19630.000	19850.000	19950.000	218.600
x		81%	0.193	259.800	0.000	675000.000	19380.000	19610.000	19680.000	216.300
σ		1%	0.016	6.604	0.000	7942.000	232.600	229.500	249.300	2.520
%RSD		1	8.391	2.542	0.000	1.177	1.200	1.170	1.266	1.165
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:46:29	10590.000	2952.000	0.000	0.000	7212.000	44020.000	44280.000	78%	192.400
2	07:47:37	10530.000	2924.000	0.000	0.000	7123.000	43000.000	43720.000	79%	199.900
3	07:48:45	10760.000	2970.000	0.000	0.000	7269.000	43620.000	44600.000	78%	196.100
x		10630.000	2949.000	0.000	0.000	7201.000	43550.000	44200.000	78%	196.100
σ		116.500	23.440	0.000	0.000	73.570	511.700	445.600	1%	3.771
%RSD		1.096	0.795	0.000	0.000	1.022	1.175	1.008	1	1.922
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:46:29	66.380	11.570	99.130	2775.000	1323.000	2833.000	2935.000	0.947	14.260
2	07:47:37	65.040	11.370	102.300	2743.000	1313.000	2803.000	2878.000	1.025	13.710
3	07:48:45	65.950	11.840	105.200	2775.000	1336.000	2851.000	2902.000	0.982	14.170
x		65.790	11.590	102.200	2764.000	1324.000	2829.000	2905.000	0.985	14.040
σ		0.688	0.235	3.046	18.650	11.600	24.180	28.620	0.039	0.295
%RSD		1.046	2.024	2.980	0.675	0.876	0.855	0.985	3.995	2.104
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:46:29	2.253	1.559	9.920	119.900	1.732	0.553	-2.509	1.726	-0.640
2	07:47:37	2.338	1.665	10.770	120.300	0.996	0.606	-2.630	0.993	2.180
3	07:48:45	2.278	1.821	10.190	121.400	0.659	0.699	-2.438	0.656	-2.088
x		2.290	1.682	10.290	120.500	1.129	0.620	-2.526	1.125	-0.183
σ		0.043	0.132	0.435	0.815	0.549	0.073	0.097	0.547	2.170
%RSD		1.886	7.851	4.230	0.676	48.640	11.860	3.852	48.630	1186.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:46:29	100.800	4.894	13.950	5.597	5.180	-0.003	79%	18.950	0.132
2	07:47:37	100.500	5.044	14.630	5.246	4.947	0.002	79%	13.660	0.086
3	07:48:45	101.500	5.127	12.770	5.560	5.206	-0.003	79%	14.810	0.116
x		100.900	5.022	13.790	5.467	5.111	-0.001	79%	15.810	0.111
σ		0.506	0.118	0.941	0.193	0.143	0.003	0%	2.784	0.023
%RSD		0.501	2.354	6.828	3.526	2.792	295.600	0	17.610	20.880
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:46:29	-3.332	18.860	0.017	0.460	0.467	1.373	605.400	600.000	91%
2	07:47:37	-1.994	13.590	0.071	0.322	0.579	1.368	604.900	600.100	91%
3	07:48:45	-1.199	14.730	0.025	0.202	0.521	1.338	603.600	601.000	92%
x		-2.175	15.720	0.037	0.328	0.522	1.360	604.600	600.400	91%
σ		1.078	2.777	0.029	0.129	0.056	0.019	0.929	0.543	0%
%RSD		49.570	17.660	78.610	39.240	10.760	1.373	0.154	0.091	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:46:29	92%	-0.014	-0.012	1.139	1.108	1.145	91%	3.662	
2	07:47:37	92%	-0.024	-0.027	1.179	1.131	1.176	91%	3.642	
3	07:48:45	92%	-0.046	-0.051	1.189	1.210	1.177	92%	3.651	
x		92%	-0.028	-0.030	1.169	1.149	1.166	91%	3.652	
σ		0%	0.016	0.020	0.026	0.053	0.018	0%	0.010	
%RSD		0	57.360	66.010	2.252	4.641	1.546	0	0.278	

C4464-07 MH3BA6D 11/17/2011 07:53:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:54:23	80%	0.359	257.300	0.000	673900.000	19330.000	19470.000	19550.000	212.900
2	07:55:31	81%	0.193	258.700	0.000	672500.000	19350.000	19590.000	19660.000	213.500
3	07:56:39	79%	-0.081	289.600	0.000	689000.000	19820.000	20050.000	20030.000	215.900
x		80%	0.157	268.500	0.000	678500.000	19500.000	19700.000	19750.000	214.100
$\sigma$		1%	0.222	18.240	0.000	9165.000	277.900	304.700	253.400	1.584
%RSD		1	141.700	6.793	0.000	1.351	1.425	1.546	1.283	0.740
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:54:23	10520.000	2948.000	0.000	0.000	7220.000	44140.000	44040.000	77%	199.100
2	07:55:31	10580.000	2957.000	0.000	0.000	7296.000	44320.000	44650.000	76%	190.600
3	07:56:39	10790.000	2986.000	0.000	0.000	7373.000	44370.000	45140.000	76%	206.800
x		10630.000	2964.000	0.000	0.000	7296.000	44280.000	44610.000	77%	198.800
$\sigma$		143.300	19.840	0.000	0.000	76.380	121.500	552.500	0%	8.080
%RSD		1.348	0.669	0.000	0.000	1.047	0.274	1.238	1	4.064
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:54:23	64.830	11.420	100.500	2773.000	1324.000	2817.000	2908.000	1.004	13.450
2	07:55:31	65.330	11.710	105.500	2828.000	1340.000	2861.000	2962.000	1.069	14.480
3	07:56:39	64.550	11.750	107.000	2813.000	1350.000	2884.000	2943.000	1.027	14.150
x		64.900	11.630	104.300	2805.000	1338.000	2854.000	2938.000	1.033	14.030
$\sigma$		0.393	0.183	3.436	28.100	13.260	33.760	27.190	0.033	0.523
%RSD		0.606	1.571	3.293	1.002	0.991	1.183	0.926	3.201	3.730
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:54:23	2.333	1.763	6.846	119.400	1.021	0.711	-2.760	1.016	-2.364
2	07:55:31	2.374	1.708	6.733	121.100	1.604	0.589	-3.431	1.596	-1.610
3	07:56:39	2.174	1.649	6.903	121.600	1.122	0.733	-2.594	1.116	1.314
x		2.294	1.707	6.827	120.700	1.249	0.677	-2.928	1.243	-0.887
$\sigma$		0.106	0.057	0.087	1.146	0.312	0.078	0.443	0.310	1.943
%RSD		4.600	3.337	1.268	0.950	24.950	11.480	15.130	24.930	219.100
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:54:23	104.000	5.518	13.960	5.570	5.215	-0.003	78%	19.000	0.090
2	07:55:31	104.400	5.068	13.750	5.184	5.332	0.007	78%	17.860	0.058
3	07:56:39	105.300	5.072	13.900	5.141	4.937	0.002	78%	15.470	0.079
x		104.600	5.219	13.870	5.298	5.161	0.002	78%	17.440	0.076
$\sigma$		0.656	0.259	0.105	0.237	0.203	0.005	0%	1.802	0.017
%RSD		0.627	4.954	0.755	4.465	3.923	209.000	0	10.330	21.750
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:54:23	-5.061	18.900	0.231	0.621	0.631	1.543	612.000	610.300	90%
2	07:55:31	-4.106	17.770	0.051	0.530	0.621	1.414	607.500	609.800	90%
3	07:56:39	-2.785	15.380	0.009	0.311	0.511	1.430	615.500	611.400	90%
x		-3.984	17.350	0.097	0.487	0.588	1.463	611.700	610.500	90%
$\sigma$		1.143	1.798	0.118	0.160	0.067	0.070	3.984	0.800	0%
%RSD		28.680	10.360	122.000	32.760	11.350	4.777	0.651	0.131	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	07:54:23	91%	-0.019	-0.039	1.129	1.111	1.163	90%	3.700	
2	07:55:31	91%	-0.052	-0.051	1.211	1.121	1.156	90%	3.639	
3	07:56:39	91%	-0.058	-0.064	1.173	1.114	1.171	91%	3.752	
x		91%	-0.043	-0.051	1.171	1.115	1.163	90%	3.697	
$\sigma$		0%	0.021	0.012	0.041	0.005	0.007	0%	0.057	
%RSD		0	48.270	24.170	3.495	0.469	0.632	1	1.532	

C4464-08 MH3BA6S 11/17/2011 08:01:09 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:02:17	78%	45.810	246.600	0.000	656000.000	18810.000	19090.000	19120.000	1996.000
2	08:03:25	78%	48.330	248.200	0.000	673400.000	19370.000	19610.000	19690.000	2061.000
3	08:04:33	80%	46.200	236.400	0.000	662600.000	19020.000	19160.000	19320.000	2030.000
x		79%	46.780	243.700	0.000	664000.000	19060.000	19290.000	19380.000	2029.000
σ		1%	1.355	6.398	0.000	8773.000	282.900	283.900	287.300	32.390
%RSD		1	2.897	2.625	0.000	1.321	1.484	1.472	1.483	1.596
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:02:17	10420.000	2853.000	0.000	0.000	6972.000	42120.000	42700.000	76%	191.800
2	08:03:25	10710.000	2919.000	0.000	0.000	7179.000	43620.000	44090.000	75%	197.700
3	08:04:33	10450.000	2911.000	0.000	0.000	7106.000	43890.000	43690.000	75%	201.400
x		10530.000	2894.000	0.000	0.000	7086.000	43210.000	43490.000	76%	197.000
σ		163.100	36.260	0.000	0.000	104.900	954.300	717.300	1%	4.875
%RSD		1.550	1.253	0.000	0.000	1.480	2.209	1.649	1	2.475
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:02:17	503.300	187.900	111.200	3605.000	1725.000	3538.000	3680.000	440.900	443.200
2	08:03:25	523.400	194.300	116.200	3710.000	1778.000	3651.000	3806.000	453.300	453.200
3	08:04:33	517.300	191.300	118.400	3679.000	1772.000	3628.000	3803.000	456.000	460.600
x		514.700	191.200	115.300	3664.000	1758.000	3605.000	3763.000	450.100	452.400
σ		10.270	3.176	3.664	53.970	29.340	59.660	71.900	8.035	8.710
%RSD		1.995	1.661	3.179	1.473	1.669	1.655	1.911	1.785	1.926
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:02:17	223.100	224.300	473.100	153.500	95.700	0.629	89.970	95.500	-0.406
2	08:03:25	230.200	226.200	481.700	159.000	98.110	0.663	90.400	97.670	-2.242
3	08:04:33	229.400	228.200	488.700	159.400	97.180	0.306	92.550	96.780	0.351
x		227.600	226.200	481.200	157.300	97.000	0.532	90.970	96.650	-0.766
σ		3.886	1.987	7.830	3.306	1.215	0.197	1.380	1.090	1.333
%RSD		1.707	0.879	1.627	2.102	1.253	37.010	1.517	1.128	174.100
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:02:17	100.000	4.926	12.990	4.597	5.249	-0.003	77%	56.260	43.110
2	08:03:25	103.100	5.152	13.930	5.414	5.286	-0.003	77%	60.620	43.960
3	08:04:33	102.300	5.156	13.720	5.405	4.962	0.008	77%	67.320	43.600
x		101.800	5.078	13.540	5.139	5.166	0.001	77%	61.400	43.560
σ		1.603	0.132	0.493	0.469	0.177	0.006	0%	5.572	0.429
%RSD		1.575	2.596	3.638	9.123	3.433	762.400	0	9.074	0.985
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:02:17	1.794	56.050	43.720	47.880	0.728	90.630	2384.000	2374.000	89%
2	08:03:25	-1.663	60.450	44.250	49.880	0.816	91.680	2422.000	2412.000	88%
3	08:04:33	-4.206	67.120	43.780	50.240	0.713	91.170	2394.000	2400.000	89%
x		-1.359	61.210	43.910	49.330	0.752	91.160	2400.000	2395.000	89%
σ		3.012	5.572	0.293	1.272	0.056	0.528	19.820	19.450	1%
%RSD		221.700	9.103	0.668	2.579	7.428	0.579	0.826	0.812	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:02:17	90%	45.730	46.620	21.710	20.130	20.670	90%	3.553	
2	08:03:25	89%	47.300	47.510	22.150	20.260	21.070	89%	3.676	
3	08:04:33	90%	46.480	46.640	21.750	19.990	20.790	89%	3.661	
x		90%	46.500	46.920	21.870	20.130	20.840	89%	3.630	
σ		0%	0.785	0.510	0.244	0.136	0.203	1%	0.067	
%RSD		0	1.687	1.086	1.113	0.677	0.975	1	1.855	

C4464-06LX5 MH3BA6L 11/17/2011 08:09:04 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:10:12	78%	0.137	51.510	0.000	136800.000	3976.000	3958.000	4016.000	43.320
2	08:11:20	79%	0.168	63.040	0.000	138900.000	4043.000	4040.000	4073.000	43.940
3	08:12:28	81%	0.209	55.760	0.000	132800.000	3860.000	3884.000	3934.000	42.570
x		79%	0.171	56.770	0.000	136200.000	3960.000	3961.000	4007.000	43.280
$\sigma$		2%	0.036	5.832	0.000	3132.000	92.570	77.830	69.860	0.686
%RSD		2	21.100	10.270	0.000	2.300	2.338	1.965	1.743	1.585
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:10:12	2104.000	582.300	0.000	0.000	1476.000	8917.000	8782.000	77%	42.000
2	08:11:20	2164.000	601.300	0.000	0.000	1528.000	9250.000	9186.000	76%	39.220
3	08:12:28	2083.000	579.700	0.000	0.000	1460.000	8762.000	8806.000	77%	39.550
x		2117.000	587.800	0.000	0.000	1488.000	8976.000	8925.000	77%	40.260
$\sigma$		42.120	11.750	0.000	0.000	35.230	249.200	226.400	1%	1.517
%RSD		1.989	1.999	0.000	0.000	2.367	2.777	2.537	1	3.767
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:10:12	12.570	2.389	53.680	548.800	268.000	546.300	594.900	0.226	3.069
2	08:11:20	12.390	2.408	52.190	559.100	277.300	564.300	617.600	0.213	3.117
3	08:12:28	12.840	2.495	49.450	535.900	265.300	538.100	580.800	0.300	2.846
x		12.600	2.431	51.770	547.900	270.200	549.600	597.700	0.246	3.011
$\sigma$		0.225	0.056	2.148	11.640	6.261	13.410	18.570	0.047	0.145
%RSD		1.788	2.320	4.148	2.124	2.317	2.439	3.107	18.990	4.801
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:10:12	0.641	0.382	1.998	23.800	0.374	0.285	-3.761	0.369	-1.795
2	08:11:20	0.564	0.341	2.423	22.880	0.039	0.448	-3.191	0.034	-2.101
3	08:12:28	0.533	0.285	2.221	23.260	0.371	0.251	-3.589	0.362	0.157
x		0.580	0.336	2.214	23.310	0.261	0.328	-3.514	0.255	-1.246
$\sigma$		0.056	0.049	0.213	0.462	0.193	0.105	0.293	0.192	1.225
%RSD		9.611	14.600	9.599	1.981	73.800	32.030	8.328	75.230	98.260
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:10:12	19.350	1.169	2.561	1.419	1.060	0.007	80%	0.564	-0.029
2	08:11:20	20.140	1.021	2.907	1.143	0.823	0.002	80%	2.064	-0.000
3	08:12:28	19.260	0.841	2.276	1.032	0.975	-0.003	83%	2.522	0.006
x		19.580	1.011	2.581	1.198	0.953	0.002	81%	1.717	-0.008
$\sigma$		0.482	0.164	0.316	0.199	0.120	0.005	1%	1.024	0.019
%RSD		2.462	16.220	12.250	16.610	12.590	215.000	2	59.650	240.600
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:10:12	0.085	0.526	-0.003	-0.024	0.116	0.212	122.200	120.400	90%
2	08:11:20	-0.232	2.025	-0.011	0.050	0.084	0.116	119.100	122.600	90%
3	08:12:28	-0.369	2.483	0.006	0.076	0.094	0.072	116.700	115.200	93%
x		-0.172	1.678	-0.003	0.034	0.098	0.133	119.300	119.400	91%
$\sigma$		0.233	1.024	0.009	0.052	0.017	0.072	2.745	3.787	1%
%RSD		135.400	61.020	282.700	151.700	17.150	53.950	2.300	3.171	2
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:10:12	92%	-0.064	-0.067	0.237	0.216	0.214	93%	0.692	
2	08:11:20	91%	-0.068	-0.067	0.249	0.205	0.241	93%	0.696	
3	08:12:28	93%	-0.050	-0.055	0.286	0.234	0.234	95%	0.674	
x		92%	-0.061	-0.063	0.257	0.218	0.230	94%	0.687	
$\sigma$		1%	0.009	0.007	0.026	0.015	0.014	1%	0.012	
%RSD		1	15.140	11.240	10.030	6.840	6.245	1	1.728	

## C4464-16X25 MH3BB4 11/17/2011 08:16:59 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:18:07	81%	-0.001	18.800	0.000	26660.000	706.300	710.200	708.400	8.246
2	08:19:15	79%	0.006	14.820	0.000	27400.000	728.500	729.100	740.100	10.170
3	08:20:23	82%	-0.039	16.580	0.000	26990.000	720.000	729.100	715.200	8.861
x		81%	-0.011	16.740	0.000	27010.000	718.300	722.800	721.200	9.091
$\sigma$		2%	0.025	1.993	0.000	372.700	11.170	10.890	16.730	0.981
%RSD		2	221.000	11.910	0.000	1.380	1.555	1.507	2.320	10.790
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:18:07	396.500	105.200	0.000	0.000	307.800	1580.000	1631.000	79%	7.827
2	08:19:15	413.300	121.900	0.000	0.000	322.900	1662.000	1701.000	77%	9.258
3	08:20:23	409.500	115.400	0.000	0.000	325.400	1621.000	1697.000	77%	8.822
x		406.400	114.200	0.000	0.000	318.700	1621.000	1676.000	78%	8.635
$\sigma$		8.818	8.441	0.000	0.000	9.513	41.190	38.910	1%	0.733
%RSD		2.170	7.394	0.000	0.000	2.985	2.541	2.321	1	8.492
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:18:07	2.135	0.644	34.750	70.710	48.450	61.240	103.600	0.088	0.654
2	08:19:15	2.956	0.662	34.180	71.580	50.210	66.030	104.700	0.055	0.868
3	08:20:23	1.983	0.651	35.180	70.290	50.410	67.230	94.390	0.096	0.575
x		2.358	0.652	34.700	70.860	49.690	64.830	100.900	0.080	0.699
$\sigma$		0.524	0.009	0.502	0.656	1.078	3.172	5.671	0.022	0.151
%RSD		22.200	1.371	1.447	0.925	2.169	4.893	5.620	27.710	21.640
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:18:07	0.089	0.064	0.206	4.542	0.302	0.173	-3.933	0.294	-1.748
2	08:19:15	0.267	0.080	0.415	4.640	-0.002	0.178	-3.620	-0.007	-0.552
3	08:20:23	0.239	0.023	0.441	4.418	-0.054	0.180	-2.166	-0.060	-3.022
x		0.198	0.055	0.354	4.533	0.082	0.177	-3.240	0.076	-1.774
$\sigma$		0.096	0.030	0.129	0.111	0.193	0.004	0.943	0.191	1.235
%RSD		48.190	53.250	36.470	2.449	234.900	2.167	29.100	253.400	69.610
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:18:07	4.926	0.156	0.680	0.224	0.149	-0.003	84%	0.891	-0.023
2	08:19:15	4.797	0.255	0.530	0.109	0.183	-0.003	83%	1.990	-0.009
3	08:20:23	4.565	0.215	0.578	0.157	0.163	0.002	83%	-0.292	-0.002
x		4.762	0.209	0.596	0.163	0.165	-0.001	83%	0.863	-0.011
$\sigma$		0.183	0.050	0.077	0.058	0.017	0.003	1%	1.141	0.011
%RSD		3.838	23.790	12.870	35.650	10.500	263.300	1	132.200	92.450
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:18:07	-0.296	0.858	-0.024	0.021	0.031	-0.081	20.400	19.860	93%
2	08:19:15	-0.830	1.954	-0.021	0.051	-0.019	-0.176	21.030	20.220	92%
3	08:20:23	0.202	-0.323	-0.008	-0.084	0.017	-0.285	20.650	21.050	92%
x		-0.308	0.830	-0.017	-0.004	0.009	-0.181	20.690	20.380	92%
$\sigma$		0.516	1.139	0.009	0.071	0.026	0.102	0.320	0.610	1%
%RSD		167.800	137.300	49.420	1701.000	275.400	56.640	1.547	2.995	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:18:07	94%	-0.061	-0.063	0.074	0.116	0.087	97%	0.129	
2	08:19:15	93%	-0.047	-0.066	0.074	0.071	0.070	97%	0.115	
3	08:20:23	92%	-0.046	-0.050	0.099	0.091	0.086	96%	0.120	
x		93%	-0.051	-0.060	0.082	0.093	0.081	97%	0.121	
$\sigma$		1%	0.008	0.008	0.015	0.022	0.010	0%	0.007	
%RSD		1	16.010	13.860	17.710	24.110	12.210	0	5.869	

C4464-06X25 MH3BA6

11/17/2011 08:24:54 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:26:02	81%	0.018	10.500	0.000	27460.000	796.000	805.900	797.300	8.178
2	08:27:10	79%	0.114	12.120	0.000	28230.000	816.900	810.200	816.300	7.352
3	08:28:18	84%	0.042	16.320	0.000	27450.000	800.200	803.200	795.300	5.723
x		81%	0.058	12.980	0.000	27710.000	804.300	806.400	803.000	7.085
$\sigma$		2%	0.050	3.001	0.000	446.500	11.040	3.529	11.580	1.249
%RSD		3	87.030	23.120	0.000	1.611	1.372	0.438	1.442	17.630
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:26:02	423.700	126.300	0.000	0.000	307.400	1749.000	1791.000	78%	8.519
2	08:27:10	430.900	116.600	0.000	0.000	309.600	1862.000	1832.000	78%	6.971
3	08:28:18	420.500	114.300	0.000	0.000	320.000	1876.000	1815.000	77%	7.173
x		425.000	119.100	0.000	0.000	312.300	1829.000	1813.000	78%	7.555
$\sigma$		5.327	6.354	0.000	0.000	6.780	69.690	20.620	1%	0.842
%RSD		1.253	5.336	0.000	0.000	2.171	3.810	1.137	1	11.140
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:26:02	3.395	0.492	28.870	90.050	54.190	84.170	112.500	-0.009	0.568
2	08:27:10	2.069	0.547	29.310	92.850	54.470	84.100	115.800	0.036	0.596
3	08:28:18	2.459	0.672	29.810	89.320	54.950	87.170	122.600	0.012	0.793
x		2.641	0.570	29.330	90.740	54.540	85.150	117.000	0.013	0.653
$\sigma$		0.681	0.092	0.475	1.867	0.382	1.749	5.164	0.023	0.123
%RSD		25.800	16.220	1.618	2.057	0.701	2.055	4.416	174.200	18.800
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:26:02	0.034	0.036	0.381	4.524	-0.095	0.145	-3.477	-0.100	-3.423
2	08:27:10	0.137	-0.118	0.420	4.798	-0.017	0.178	-3.547	-0.021	-1.970
3	08:28:18	0.173	0.015	0.635	5.312	-0.018	0.109	-3.122	-0.024	-2.650
x		0.115	-0.022	0.479	4.878	-0.043	0.144	-3.382	-0.049	-2.681
$\sigma$		0.072	0.084	0.137	0.400	0.044	0.034	0.228	0.045	0.727
%RSD		62.820	375.200	28.670	8.208	102.600	23.840	6.737	91.780	27.120
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:26:02	3.912	0.227	0.395	0.166	0.165	-0.003	84%	-0.755	-0.018
2	08:27:10	4.111	0.147	0.553	0.060	0.098	-0.003	83%	0.708	-0.025
3	08:28:18	3.808	0.085	0.602	0.158	0.060	-0.003	83%	-0.260	-0.027
x		3.944	0.153	0.516	0.128	0.108	-0.003	83%	-0.102	-0.023
$\sigma$		0.154	0.071	0.108	0.059	0.053	0.000	1%	0.744	0.005
%RSD		3.908	46.470	20.990	46.120	49.250	0.000	1	727.200	21.810
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:26:02	0.321	-0.786	-0.029	-0.088	0.031	-0.060	22.730	23.190	93%
2	08:27:10	-0.140	0.676	-0.036	-0.020	-0.007	-0.246	23.730	24.840	91%
3	08:28:18	0.114	-0.291	-0.028	-0.074	-0.027	-0.287	23.750	23.770	91%
x		0.098	-0.134	-0.031	-0.060	-0.001	-0.198	23.400	23.930	92%
$\sigma$		0.231	0.744	0.004	0.036	0.030	0.121	0.581	0.836	1%
%RSD		235.100	556.300	14.250	58.780	3752.000	61.210	2.482	3.494	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:26:02	94%	-0.059	-0.062	0.008	-0.015	0.001	97%	0.115	
2	08:27:10	92%	-0.063	-0.070	-0.018	0.003	-0.005	96%	0.110	
3	08:28:18	92%	-0.062	-0.068	-0.017	-0.003	-0.015	96%	0.118	
x		92%	-0.061	-0.066	-0.009	-0.005	-0.006	96%	0.115	
$\sigma$		1%	0.002	0.004	0.015	0.009	0.008	0%	0.004	
%RSD		1	3.188	5.967	160.300	178.700	130.800	0	3.514	

C4464-07X25 MH3BA6D 11/17/2011 08:32:50 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:58	80%	0.001	9.208	0.000	27190.000	788.300	772.200	792.900	6.122
2	08:35:06	80%	0.179	9.255	0.000	27310.000	792.000	788.600	789.600	6.378
3	08:36:14	80%	0.040	15.760	0.000	27540.000	799.000	806.100	800.500	6.324
x		80%	0.074	11.410	0.000	27350.000	793.100	789.000	794.400	6.275
$\sigma$		0%	0.094	3.770	0.000	176.500	5.433	16.960	5.590	0.135
%RSD		1	127.100	33.040	0.000	0.645	0.685	2.150	0.704	2.148
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:58	418.200	114.600	0.000	0.000	307.200	1821.000	1757.000	77%	8.813
2	08:35:06	415.900	116.500	0.000	0.000	307.300	1675.000	1750.000	78%	7.030
3	08:36:14	421.500	114.800	0.000	0.000	315.800	1859.000	1796.000	77%	8.501
x		418.500	115.300	0.000	0.000	310.100	1785.000	1768.000	77%	8.115
$\sigma$		2.791	1.017	0.000	0.000	4.950	96.840	24.900	1%	0.952
%RSD		0.667	0.882	0.000	0.000	1.596	5.425	1.409	1	11.730
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:58	2.711	0.416	26.160	87.660	53.390	83.010	120.300	0.037	0.582
2	08:35:06	2.653	0.250	25.860	86.010	53.440	82.570	113.100	0.011	0.532
3	08:36:14	3.278	0.472	25.450	89.440	54.010	83.920	115.900	-0.008	0.641
x		2.881	0.379	25.820	87.700	53.610	83.170	116.400	0.013	0.585
$\sigma$		0.345	0.116	0.354	1.713	0.347	0.687	3.647	0.022	0.055
%RSD		11.980	30.480	1.370	1.953	0.647	0.826	3.132	167.700	9.361
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:58	0.087	-0.019	0.387	4.373	0.046	0.191	-3.783	0.040	-1.965
2	08:35:06	0.197	0.135	0.347	5.048	-0.039	0.123	-4.062	-0.045	-0.942
3	08:36:14	0.071	0.133	0.387	4.590	0.021	0.172	-2.024	0.014	-2.256
x		0.119	0.083	0.374	4.670	0.009	0.162	-3.290	0.003	-1.721
$\sigma$		0.069	0.088	0.023	0.345	0.044	0.035	1.105	0.043	0.690
%RSD		57.820	106.600	6.234	7.378	481.300	21.590	33.590	1375.000	40.090
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:58	4.455	0.247	0.580	0.170	0.140	0.007	83%	-0.522	-0.030
2	08:35:06	4.113	0.045	0.384	0.058	0.129	-0.003	83%	-1.084	-0.030
3	08:36:14	4.281	0.249	0.513	0.160	0.133	-0.003	82%	-2.201	-0.040
x		4.283	0.180	0.492	0.129	0.134	0.001	83%	-1.269	-0.033
$\sigma$		0.171	0.117	0.100	0.062	0.006	0.006	0%	0.855	0.006
%RSD		3.993	64.870	20.230	47.780	4.159	996.600	0	67.360	17.500
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:33:58	0.300	-0.554	-0.044	-0.096	0.005	-0.127	23.220	23.770	92%
2	08:35:06	0.610	-1.114	-0.029	-0.099	-0.040	-0.206	22.790	23.130	91%
3	08:36:14	1.235	-2.233	-0.018	-0.198	0.005	-0.249	23.410	25.220	92%
x		0.715	-1.300	-0.030	-0.131	-0.010	-0.194	23.140	24.040	92%
$\sigma$		0.476	0.855	0.013	0.058	0.026	0.062	0.319	1.073	0%
%RSD		66.570	65.720	44.060	43.950	264.000	31.920	1.380	4.462	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:33:58	92%	-0.055	-0.067	-0.045	-0.005	-0.019	96%	0.104	
2	08:35:06	93%	-0.056	-0.073	-0.003	-0.009	-0.010	96%	0.101	
3	08:36:14	92%	-0.056	-0.058	-0.039	-0.047	-0.033	96%	0.120	
x		92%	-0.056	-0.066	-0.029	-0.020	-0.021	96%	0.108	
$\sigma$		0%	0.001	0.007	0.023	0.023	0.012	0%	0.010	
%RSD		0	1.445	11.060	76.850	114.400	56.730	0	9.048	

C4464-08X25 MH3BA6S 11/17/2011 08:40:46 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:54	80%	1.963	11.960	0.000	27400.000	795.200	785.800	800.900	81.010
2	08:43:02	82%	2.026	12.040	0.000	26840.000	779.800	771.100	772.000	77.120
3	08:44:10	80%	1.928	9.939	0.000	27760.000	813.400	798.300	814.100	83.510
x		81%	1.972	11.310	0.000	27340.000	796.100	785.100	795.700	80.550
$\sigma$		1%	0.050	1.192	0.000	465.900	16.860	13.640	21.510	3.220
%RSD		1	2.535	10.540	0.000	1.704	2.118	1.738	2.703	3.998
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:54	423.500	113.700	0.000	0.000	318.800	1777.000	1826.000	75%	7.225
2	08:43:02	406.000	119.600	0.000	0.000	296.100	1739.000	1762.000	78%	7.520
3	08:44:10	438.000	112.600	0.000	0.000	328.600	1777.000	1832.000	75%	8.084
x		422.500	115.300	0.000	0.000	314.500	1764.000	1806.000	76%	7.610
$\sigma$		16.020	3.805	0.000	0.000	16.650	21.720	38.750	1%	0.437
%RSD		3.791	3.300	0.000	0.000	5.294	1.231	2.145	2	5.736
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:54	20.990	8.089	26.290	132.100	72.100	123.200	160.500	18.630	19.490
2	08:43:02	20.590	7.347	23.250	128.400	70.510	118.000	146.400	18.040	19.000
3	08:44:10	21.110	8.002	25.750	128.300	73.490	127.400	171.400	18.920	19.830
x		20.900	7.813	25.090	129.600	72.030	122.900	159.400	18.530	19.440
$\sigma$		0.271	0.406	1.623	2.160	1.490	4.731	12.540	0.452	0.419
%RSD		1.296	5.192	6.469	1.667	2.068	3.850	7.868	2.437	2.156
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:54	9.929	9.876	19.270	6.258	3.082	0.133	1.297	3.044	-2.577
2	08:43:02	9.498	8.967	19.510	5.921	2.487	0.188	-0.069	2.463	-0.577
3	08:44:10	9.602	9.959	19.110	6.222	4.238	0.108	1.285	4.192	-1.096
x		9.676	9.600	19.300	6.134	3.269	0.143	0.838	3.233	-1.417
$\sigma$		0.225	0.550	0.202	0.185	0.891	0.041	0.785	0.880	1.038
%RSD		2.327	5.734	1.044	3.022	27.240	28.560	93.710	27.210	73.250
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:54	4.024	0.234	0.541	0.221	0.128	0.002	83%	1.488	1.797
2	08:43:02	4.084	0.115	0.450	0.071	0.149	0.007	83%	1.842	1.849
3	08:44:10	3.455	0.120	0.504	0.300	0.107	0.007	82%	1.720	1.785
x		3.854	0.157	0.498	0.197	0.128	0.005	83%	1.684	1.810
$\sigma$		0.347	0.067	0.046	0.116	0.021	0.003	1%	0.180	0.034
%RSD		9.013	42.910	9.201	58.810	16.700	51.710	1	10.690	1.868
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:41:54	-0.011	1.455	1.723	1.766	0.078	3.498	94.060	96.040	91%
2	08:43:02	0.444	1.809	1.735	1.726	0.029	3.324	94.480	94.930	92%
3	08:44:10	-0.025	1.685	1.827	2.060	-0.018	3.484	97.080	96.830	91%
x		0.136	1.650	1.762	1.851	0.030	3.435	95.210	95.930	91%
$\sigma$		0.267	0.179	0.056	0.183	0.048	0.097	1.638	0.952	0%
%RSD		196.500	10.870	3.206	9.861	161.600	2.820	1.721	0.992	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:41:54	92%	1.738	1.795	0.725	0.802	0.755	96%	0.112	
2	08:43:02	93%	1.776	1.754	0.716	0.684	0.701	96%	0.109	
3	08:44:10	92%	1.836	1.863	0.779	0.714	0.776	96%	0.127	
x		92%	1.784	1.804	0.740	0.734	0.744	96%	0.116	
$\sigma$		0%	0.049	0.055	0.034	0.061	0.039	0%	0.010	
%RSD		0	2.764	3.064	4.626	8.334	5.221	0	8.369	

C4464-06LX125 MH3BA6L 11/17/2011 08:48:42 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:50	82%	-0.212	1.114	0.000	5683.000	159.300	154.500	159.700	-0.413
2	08:50:58	80%	0.021	4.213	0.000	5827.000	161.800	164.100	161.500	-0.985
3	08:52:07	80%	-0.032	6.253	0.000	5994.000	167.700	167.500	171.200	1.395
x		81%	-0.074	3.860	0.000	5835.000	162.900	162.000	164.200	-0.001
$\sigma$		1%	0.122	2.588	0.000	155.600	4.304	6.768	6.196	1.242
%RSD		2	164.400	67.040	0.000	2.668	2.641	4.177	3.775	151900.000
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:50	84.840	27.330	0.000	0.000	75.980	378.400	367.400	77%	2.020
2	08:50:58	79.660	26.820	0.000	0.000	79.760	346.100	366.100	76%	1.091
3	08:52:07	91.560	31.400	0.000	0.000	93.490	398.500	390.900	75%	1.925
x		85.350	28.510	0.000	0.000	83.080	374.300	374.800	76%	1.678
$\sigma$		5.965	2.509	0.000	0.000	9.217	26.430	13.940	1%	0.511
%RSD		6.989	8.799	0.000	0.000	11.090	7.060	3.718	1	30.450
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:50	0.261	0.006	19.720	-1.918	10.510	-9.925	22.500	-0.001	0.128
2	08:50:58	-0.100	0.092	20.310	1.681	10.730	-8.517	16.450	-0.018	0.198
3	08:52:07	0.792	0.034	18.770	-0.077	11.250	-6.244	28.730	-0.026	0.250
x		0.318	0.044	19.600	-0.104	10.830	-8.228	22.560	-0.015	0.192
$\sigma$		0.448	0.044	0.778	1.800	0.379	1.857	6.140	0.013	0.061
%RSD		141.200	98.940	3.967	1726.000	3.499	22.570	27.210	84.180	31.830
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:50	-0.013	-0.057	0.220	1.272	-0.532	0.062	-3.020	-0.534	4.806
2	08:50:58	-0.000	-0.007	0.388	1.010	0.562	0.079	-2.955	0.550	0.193
3	08:52:07	0.031	-0.059	0.376	1.344	0.101	0.060	-2.539	0.094	-2.792
x		0.006	-0.041	0.328	1.209	0.044	0.067	-2.838	0.037	0.736
$\sigma$		0.022	0.029	0.094	0.176	0.549	0.010	0.261	0.544	3.828
%RSD		379.400	71.600	28.560	14.540	1262.000	15.480	9.188	1487.000	520.500
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:50	0.740	-0.014	0.051	-0.051	0.018	-0.003	83%	-2.468	-0.032
2	08:50:58	0.899	-0.038	0.021	0.010	-0.049	-0.003	83%	-1.585	-0.040
3	08:52:07	0.890	-0.073	0.042	-0.021	-0.015	-0.003	80%	-0.523	-0.013
x		0.843	-0.042	0.038	-0.021	-0.015	-0.003	82%	-1.525	-0.029
$\sigma$		0.089	0.030	0.015	0.030	0.034	0.000	1%	0.974	0.014
%RSD		10.590	70.530	40.460	147.500	220.500	0.000	2	63.860	48.190
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:49:50	0.965	-2.497	-0.026	-0.165	-0.031	-0.212	4.451	5.003	91%
2	08:50:58	0.594	-1.614	-0.044	-0.074	0.001	-0.345	4.268	4.767	91%
3	08:52:07	0.306	-0.557	-0.020	-0.062	-0.024	-0.345	4.978	4.336	90%
x		0.622	-1.556	-0.030	-0.100	-0.018	-0.300	4.565	4.702	91%
$\sigma$		0.330	0.971	0.013	0.056	0.017	0.076	0.369	0.338	1%
%RSD		53.140	62.410	42.940	55.960	92.900	25.390	8.073	7.192	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:49:50	92%	-0.066	-0.058	-0.078	-0.025	-0.048	96%	0.003	
2	08:50:58	92%	-0.065	-0.068	-0.068	-0.053	-0.059	96%	-0.006	
3	08:52:07	90%	-0.038	-0.040	-0.069	-0.030	-0.046	94%	0.015	
x		91%	-0.056	-0.055	-0.071	-0.036	-0.051	96%	0.004	
$\sigma$		1%	0.016	0.014	0.006	0.015	0.007	1%	0.010	
%RSD		1	27.920	25.370	7.807	41.470	12.960	1	248.800	

CCV48 11/17/2011 08:56:38 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:46	81%	492.700	501.700	0.000	49480.000	48360.000	49430.000	49260.000	9147.000
2	08:58:53	80%	506.200	494.600	0.000	50980.000	49890.000	50990.000	51080.000	9506.000
3	09:00:01	81%	493.400	512.800	0.000	50750.000	49590.000	50450.000	50290.000	9359.000
x		81%	497.400	503.100	0.000	50400.000	49280.000	50290.000	50210.000	9337.000
σ		1%	7.627	9.158	0.000	810.100	810.100	789.700	909.200	180.900
%RSD		1	1.533	1.821	0.000	1.607	1.644	1.570	1.811	1.937
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:46	481.100	9326.000	0.000	0.000	24090.000	49430.000	49280.000	77%	478.000
2	08:58:53	498.800	9584.000	0.000	0.000	24800.000	51010.000	50820.000	76%	492.100
3	09:00:01	484.800	9481.000	0.000	0.000	24680.000	50760.000	50980.000	76%	488.700
x		488.200	9463.000	0.000	0.000	24520.000	50400.000	50360.000	77%	486.300
σ		9.307	129.600	0.000	0.000	383.800	852.000	939.800	1%	7.389
%RSD		1.906	1.369	0.000	0.000	1.565	1.690	1.866	1	1.519
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:46	482.100	483.800	16.510	25210.000	993.000	24500.000	24580.000	481.700	473.000
2	08:58:53	496.600	502.400	19.220	25950.000	1024.000	25310.000	25290.000	493.700	492.200
3	09:00:01	494.300	499.600	15.340	25860.000	1019.000	25170.000	25270.000	493.300	493.000
x		491.000	495.300	17.020	25680.000	1012.000	24990.000	25040.000	489.600	486.100
σ		7.817	10.010	1.990	403.100	16.560	432.200	406.100	6.795	11.300
%RSD		1.592	2.021	11.690	1.570	1.636	1.729	1.621	1.388	2.325
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:46	967.700	958.200	1007.000	482.200	501.800	-0.375	491.700	498.800	-0.792
2	08:58:53	989.000	985.100	1024.000	493.800	518.700	-0.833	493.900	515.100	0.745
3	09:00:01	993.000	990.500	1036.000	486.000	502.300	-0.047	498.100	499.200	-1.040
x		983.200	978.000	1022.000	487.300	507.600	-0.418	494.600	504.400	-0.362
σ		13.600	17.300	14.510	5.897	9.616	0.395	3.277	9.307	0.967
%RSD		1.383	1.769	1.420	1.210	1.894	94.370	0.662	1.845	267.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:46	482.900	484.900	485.500	490.700	484.100	0.007	81%	502.900	496.300
2	08:58:53	489.000	498.400	497.600	501.400	497.100	0.007	81%	522.000	506.600
3	09:00:01	502.100	501.700	500.100	501.200	500.100	0.002	80%	523.000	510.300
x		491.300	495.000	494.400	497.800	493.700	0.006	81%	516.000	504.400
σ		9.802	8.938	7.816	6.148	8.515	0.003	0%	11.300	7.260
%RSD		1.995	1.806	1.581	1.235	1.725	50.690	1	2.190	1.439
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:46	10.080	501.800	499.700	511.200	501.300	498.300	2393.000	2398.000	93%
2	08:58:53	13.120	520.900	510.400	520.700	510.100	513.100	2464.000	2470.000	91%
3	09:00:01	18.570	522.000	509.800	520.500	517.500	516.800	2472.000	2468.000	91%
x		13.920	514.900	506.600	517.500	509.600	509.400	2443.000	2445.000	92%
σ		4.303	11.330	5.984	5.439	8.090	9.800	43.920	41.390	1%
%RSD		30.910	2.201	1.181	1.051	1.587	1.924	1.798	1.692	1
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	08:57:46	93%	492.300	492.900	494.600	492.800	492.500	95%	500.200	
2	08:58:53	93%	508.300	505.600	505.300	506.900	506.900	94%	514.800	
3	09:00:01	92%	504.100	502.500	503.000	504.900	504.300	95%	511.200	
x		93%	501.600	500.300	501.000	501.500	501.200	95%	508.700	
σ		1%	8.283	6.653	5.598	7.619	7.650	1%	7.576	
%RSD		1	1.651	1.330	1.118	1.519	1.526	1	1.489	

CCB48 11/17/2011 09:04:31 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:05:39		81%	0.424	9.552	0.000	265.100	22.130	20.710	21.970	6.879
2	09:06:47		81%	0.243	6.793	0.000	247.500	11.420	11.370	12.410	3.048
3	09:07:55		84%	0.159	6.881	0.000	234.800	9.863	7.156	10.490	0.346
x			82%	0.275	7.742	0.000	249.100	14.470	13.080	14.960	3.424
$\sigma$			2%	0.135	1.568	0.000	15.210	6.680	6.934	6.147	3.283
%RSD			2	49.200	20.260	0.000	6.106	46.160	53.030	41.100	95.860
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:05:39		1.967	8.936	0.000	0.000	33.570	19.340	27.720	76%	0.503
2	09:06:47		0.201	5.262	0.000	0.000	24.120	38.070	7.566	77%	0.139
3	09:07:55		0.193	8.578	0.000	0.000	17.520	1.373	11.020	77%	0.366
x			0.787	7.592	0.000	0.000	25.070	19.600	15.440	77%	0.336
$\sigma$			1.022	2.026	0.000	0.000	8.069	18.350	10.780	1%	0.184
%RSD			129.900	26.680	0.000	0.000	32.180	93.650	69.850	1	54.660
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:05:39		0.269	0.152	15.080	-2.756	0.386	-12.340	25.410	0.138	0.348
2	09:06:47		0.125	0.159	14.190	-9.267	0.090	-20.780	19.900	0.099	0.174
3	09:07:55		-0.136	0.018	13.730	-12.960	0.099	-23.720	14.970	0.074	0.113
x			0.086	0.110	14.330	-8.329	0.192	-18.950	20.100	0.103	0.212
$\sigma$			0.205	0.079	0.684	5.168	0.168	5.906	5.225	0.032	0.122
%RSD			238.200	72.520	4.772	62.050	87.700	31.170	26.000	31.230	57.550
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:05:39		0.454	0.366	-0.021	0.461	0.421	0.020	-3.465	0.411	1.282
2	09:06:47		0.232	0.064	-0.232	-0.034	-0.087	0.083	-4.100	-0.093	3.649
3	09:07:55		0.249	0.225	-0.084	0.068	0.236	0.059	-3.643	0.227	-3.768
x			0.312	0.218	-0.113	0.165	0.190	0.054	-3.736	0.182	0.387
$\sigma$			0.124	0.151	0.108	0.261	0.257	0.032	0.327	0.255	3.789
%RSD			39.620	69.150	96.220	158.400	135.200	58.770	8.764	140.200	978.300
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:05:39		1.854	1.929	1.800	1.863	1.857	0.007	83%	-2.350	0.206
2	09:06:47		1.327	1.452	1.293	1.162	1.267	-0.003	83%	-0.558	0.140
3	09:07:55		0.965	1.003	1.095	0.942	0.837	0.002	84%	-1.554	0.086
x			1.382	1.461	1.396	1.322	1.320	0.002	83%	-1.487	0.144
$\sigma$			0.448	0.463	0.364	0.481	0.512	0.005	1%	0.898	0.060
%RSD			32.380	31.680	26.070	36.350	38.790	224.400	1	60.350	41.750
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb	
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
1	09:05:39		1.067	-2.379	0.227	0.144	0.888	1.034	1.549	1.685	91%
2	09:06:47		0.163	-0.589	0.068	0.011	0.604	0.685	0.553	0.751	92%
3	09:07:55		0.730	-1.581	0.093	-0.012	0.483	0.345	0.615	0.560	92%
x			0.654	-1.517	0.130	0.048	0.658	0.688	0.906	0.998	92%
$\sigma$			0.457	0.897	0.085	0.084	0.208	0.345	0.558	0.602	0%
%RSD			69.920	59.130	65.970	176.900	31.610	50.070	61.640	60.290	0
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U		
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb		
1	09:05:39		92%	0.158	0.152	0.188	0.252	0.214	97%	0.214	
2	09:06:47		93%	0.070	0.056	0.040	0.062	0.042	98%	0.094	
3	09:07:55		93%	0.041	0.042	0.038	0.043	0.045	98%	0.083	
x			93%	0.090	0.083	0.089	0.119	0.101	98%	0.131	
$\sigma$			0%	0.061	0.059	0.086	0.116	0.099	1%	0.073	
%RSD			0	68.380	71.430	96.980	97.320	98.070	1	55.580	

**Mass Uncorrected ICPS**

SO (SO) 11/17/2011 12:23:20 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	00:24:28	10976.090	10.938	10.938	400.006	140926.070	2604.925	375.005	421.881	15769.637
2	00:25:36	10891.650	11.458	9.375	362.505	139780.520	2583.046	360.942	448.445	16027.736
3	00:26:44	10855.686	12.500	6.250	385.943	140080.310	2278.307	359.380	329.691	15843.155
x		10907.809	11.632	8.854	382.818	140262.300	2488.759	365.109	400.006	15880.176
$\sigma$		61.807	0.796	2.387	18.945	594.062	182.585	8.606	62.326	132.973
%RSD		0.567	6.840	26.956	4.949	0.424	7.336	2.357	15.581	0.837
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	00:24:28	1365.690	1081.291	20480.295	199331.020	232601.770	40.625	712.518	80875.157	62.500
2	00:25:36	1156.297	1135.983	20254.974	201219.720	232963.850	26.563	692.204	81484.856	34.375
3	00:26:44	1206.301	1198.488	20322.257	200503.500	232984.500	43.750	657.828	81880.861	51.563
x		1242.763	1138.587	20352.509	200351.410	232850.040	36.979	687.517	81413.625	49.479
$\sigma$		109.355	58.642	115.667	953.492	215.254	9.155	27.645	506.622	14.178
%RSD		8.799	5.150	0.568	0.476	0.092	24.758	4.021	0.622	28.654
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	00:24:28	1798.551	681.266	601.575	5540.137	434.382	89894.448	3248.807	75.000	65.625
2	00:25:36	1643.845	756.270	559.386	5782.420	407.818	90671.209	3075.331	84.375	71.875
3	00:26:44	1695.413	723.456	659.390	5588.593	389.068	88631.909	3136.282	84.375	67.188
x		1712.603	720.331	606.784	5637.050	410.423	89732.522	3153.473	81.250	68.229
$\sigma$		78.773	37.599	50.205	128.204	22.769	1029.248	88.006	5.413	3.253
%RSD		4.600	5.220	8.274	2.274	5.548	1.147	2.791	6.662	4.767
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	00:24:28	175.001	89.063	151.563	47.396	17.188	17.188	317.712	22.917	23.438
2	00:25:36	151.563	87.500	137.501	36.979	10.938	10.938	336.983	21.354	17.188
3	00:26:44	123.438	79.688	109.375	45.833	9.375	9.375	362.505	11.458	14.583
x		150.001	85.417	132.813	43.403	12.500	12.500	339.067	18.576	18.403
$\sigma$		25.817	5.023	21.481	5.618	4.134	4.134	22.469	6.214	4.550
%RSD		17.211	5.880	16.174	12.943	33.072	33.072	6.627	33.450	24.727
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	00:24:28	34.375	65.625	65.625	43.750	106.250	0.000	181399.120	123.438	46.875
2	00:25:36	39.063	48.438	39.063	28.125	64.063	1.563	180071.540	143.751	37.500
3	00:26:44	21.875	34.375	50.000	20.313	76.563	1.563	180690.220	137.501	37.500
x		31.771	49.479	51.563	30.729	82.292	1.042	180720.290	134.896	40.625
$\sigma$		8.885	15.651	13.350	11.934	21.670	0.902	664.298	10.404	5.413
%RSD		27.965	31.632	25.891	38.835	26.333	86.603	0.368	7.712	13.323
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	00:24:28	3.125	3.125	45.313	10.938	68.750	406.256	54.688	100.000	385677.430
2	00:25:36	0.000	0.000	40.625	10.938	65.625	307.816	35.938	62.500	387253.600
3	00:26:44	3.125	3.125	25.000	6.250	40.625	203.126	18.750	70.313	389598.900
x		2.083	2.083	36.979	9.375	58.333	305.733	36.458	77.604	387509.980
$\sigma$		1.804	1.804	10.636	2.706	15.415	101.581	17.974	19.785	1973.265
%RSD		86.603	86.603	28.761	28.868	26.426	33.225	49.301	25.495	0.509
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	00:24:28	402500.850	110.938	292.190	132.813	154.688	379.693	374031.650	262.502	
2	00:25:36	405168.440	140.626	315.628	185.939	128.126	334.379	376726.080	225.002	
3	00:26:44	405017.370	87.500	260.940	179.689	135.938	314.066	377261.820	173.439	
x		404228.880	113.021	289.586	166.147	139.584	342.712	376006.520	220.314	
$\sigma$		1498.429	26.624	27.437	29.036	13.652	33.598	1731.134	44.717	
%RSD		0.371	23.557	9.475	17.476	9.780	9.803	0.460	20.297	

S1 (S) 11/17/2011 12:31:12 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	00:32:20	10655.535	45.833	25.000	398.443	287267.350	126353.190	18307.035	22617.891	22347.153
2	00:33:27	10622.698	57.813	32.813	420.319	290556.310	126350.040	18660.617	22661.710	22639.800
3	00:34:36	10850.994	57.292	29.688	421.881	289931.300	126304.330	18848.363	22702.400	22757.174
x		10709.742	53.646	29.167	413.548	289251.650	126335.850	18605.339	22660.667	22581.376
σ		123.425	6.771	3.932	13.104	1746.640	27.349	274.865	42.264	211.162
%RSD		1.152	12.621	13.482	3.169	0.604	0.022	1.477	0.187	0.935
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	00:32:20	1553.209	1112.543	20345.728	200322.870	433520.200	495.321	8438.429	82317.736	298.441
2	00:33:27	1659.471	1070.353	20276.880	201704.610	438158.540	453.132	8336.807	81961.006	306.253
3	00:34:36	1537.583	1007.848	20275.315	201257.750	440370.320	526.572	8630.731	83059.511	295.316
x		1583.421	1063.581	20299.308	201095.080	437349.690	491.675	8468.656	82446.084	300.003
σ		66.323	52.675	40.209	705.087	3495.958	36.856	149.275	560.387	5.634
%RSD		4.189	4.953	0.198	0.351	0.799	7.496	1.763	0.680	1.878
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	00:32:20	5322.867	2276.744	832.837	15926.060	1450.074	266350.690	7456.633	998.472	259.377
2	00:33:27	5275.974	2117.344	789.084	15619.472	1498.516	266306.120	7450.380	1032.850	303.128
3	00:34:36	5302.546	2178.291	804.710	15944.831	1432.884	267668.730	7637.979	940.656	267.190
x		5300.462	2190.793	808.877	15830.121	1460.491	266775.180	7514.997	990.659	276.565
σ		23.516	80.432	22.172	182.669	34.033	774.160	106.551	46.591	23.334
%RSD		0.444	3.671	2.741	1.154	2.330	0.290	1.418	4.703	8.437
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	00:32:20	1226.615	600.013	450.007	179.689	62.500	62.500	472.404	56.250	15.625
2	00:33:27	1200.050	645.327	420.319	186.980	51.563	51.563	435.423	65.104	20.313
3	00:34:36	1182.862	600.013	412.506	181.251	45.313	45.313	466.153	66.667	17.188
x		1203.176	615.117	427.611	182.640	53.125	53.125	457.993	62.674	17.708
σ		22.044	26.162	19.785	3.839	8.700	8.700	19.795	5.618	2.387
%RSD		1.832	4.253	4.627	2.102	16.376	16.376	4.322	8.963	13.478
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	00:32:20	673.453	1196.925	1181.299	759.395	1920.442	0.000	182288.460	165.626	667.203
2	00:33:27	703.142	1212.552	1243.804	789.084	1962.635	3.125	183367.760	170.314	762.520
3	00:34:36	645.327	1203.176	1256.305	767.208	1904.815	0.000	184054.640	146.876	796.897
x		673.974	1204.217	1227.136	771.896	1929.297	1.042	183236.950	160.938	742.207
σ		28.911	7.865	40.185	15.390	29.910	1.804	890.327	12.402	67.191
%RSD		4.290	0.653	3.275	1.994	1.550	173.205	0.486	7.706	9.053
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	00:32:20	6.250	6.250	675.016	151.563	2197.044	1565.711	1421.946	2304.873	390952.320
2	00:33:27	14.063	14.063	701.580	167.188	2162.664	1456.324	1396.943	2373.635	390400.020
3	00:34:36	10.938	10.938	737.519	167.188	2178.291	1504.767	1250.055	2398.639	395435.720
x		10.417	10.417	704.705	161.980	2179.333	1508.934	1356.315	2359.049	392262.680
σ		3.932	3.932	31.369	9.021	17.214	54.812	92.869	48.555	2761.767
%RSD		37.749	37.749	4.451	5.569	0.790	3.633	6.847	2.058	0.704
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	00:32:20	408198.190	1270.369	3039.386	1096.917	1043.788	2473.652	381136.080	5046.204	
2	00:33:27	406515.270	1267.244	3020.632	1129.732	1059.414	2414.267	384191.310	4891.462	
3	00:34:36	410162.650	1357.877	3109.713	1184.424	970.345	2264.242	387768.860	5094.658	
x		408292.040	1298.497	3056.577	1137.025	1024.516	2384.053	384365.420	5010.775	
σ		1825.498	51.449	46.963	44.207	47.559	107.925	3319.812	106.130	
%RSD		0.447	3.962	1.536	3.888	4.642	4.527	0.864	2.118	

S2 (S) 11/17/2011 01:18:25 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	01:19:33	11065.221	4692.437	793.772	446.882	4033537.700	3261489.600	474070.420	588620.890	947600.500
2	01:20:41	10794.702	4795.597	739.082	428.131	4031885.900	3247068.300	473032.160	586929.970	936636.710
3	01:21:49	8274.271	3594.202	578.137	345.317	3074639.400	2459305.300	357680.180	446232.460	707625.560
x		10044.731	4360.745	703.663	406.777	3713354.400	2989287.700	434927.590	540594.440	863954.260
σ		1539.218	665.847	112.096	54.045	553144.010	459034.860	66900.231	81724.244	135495.560
%RSD		15.324	15.269	15.930	13.286	14.896	15.356	15.382	15.117	15.683
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	01:19:33	11323.236	53633.302	24370.770	193409.830	2985265.800	12985.587	207294.720	83015.506	6904.793
2	01:20:41	11604.712	52755.041	24182.951	193013.900	2963805.700	12331.883	205573.230	83123.947	6900.104
3	01:21:49	9049.740	40131.289	18590.213	148180.170	2282161.200	9448.436	157102.870	64154.669	5210.325
x		10659.229	48839.878	22381.311	178201.300	2743744.200	11588.635	189990.270	76764.707	6338.407
σ		1400.945	7554.632	3284.530	25999.817	399886.600	1882.066	28494.329	10920.748	976.951
%RSD		13.143	15.468	14.675	14.590	14.574	16.241	14.998	14.226	15.413
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	01:19:33	104176.910	96665.004	11654.752	355786.900	261608.000	5862180.800	148707.480	122193.810	27977.369
2	01:20:41	103537.910	95276.032	11770.472	352223.650	261372.500	5870457.000	149665.850	122907.710	27371.509
3	01:21:49	78222.949	73127.313	8840.234	270079.090	201267.260	4469385.600	113358.920	92547.244	21392.568
x		95312.589	88356.117	10755.153	326029.880	241415.920	5400674.500	137244.080	112549.590	25580.482
σ		14803.510	13206.803	1659.377	48487.549	34769.960	806530.410	20690.708	17326.213	3639.469
%RSD		15.532	14.947	15.429	14.872	14.403	14.934	15.076	15.394	14.228
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	01:19:33	134202.410	65705.443	41054.219	18745.103	1012.536	1012.536	3573.364	1428.196	18.229
2	01:20:41	135574.650	65006.946	41217.187	18917.726	1078.166	1078.166	3742.157	1440.177	19.792
3	01:21:49	102773.040	50567.464	31636.554	14332.707	831.274	831.274	2824.758	1071.915	14.583
x		124183.370	60426.618	37969.320	17331.845	973.992	973.992	3380.093	1313.430	17.535
σ		18554.577	8545.417	5484.941	2598.764	127.879	127.879	488.283	209.243	2.673
%RSD		14.941	14.142	14.446	14.994	13.129	13.129	14.446	15.931	15.242
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	01:19:33	17789.194	31079.083	33620.766	19665.088	50336.965	0.000	184380.680	2061.086	96251.287
2	01:20:41	18008.218	31158.944	34053.038	19627.537	51498.908	0.000	184461.400	2018.893	96038.928
3	01:21:49	13945.866	23957.572	25358.424	15123.626	39277.358	0.000	142014.900	1453.199	72653.028
x		16581.093	28731.866	31010.743	18138.750	47037.744	0.000	170285.660	1844.393	88314.414
σ		2284.799	4134.853	4899.821	2611.242	6745.755	0.000	24483.229	339.440	13563.574
%RSD		13.780	14.391	15.800	14.396	14.341	0.000	14.378	18.404	15.358
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	01:19:33	1342.251	1342.251	93204.622	21278.335	57987.764	86432.557	88191.697	155736.470	410292.870
2	01:20:41	1470.388	1470.388	93270.676	21200.094	58373.706	86265.929	87977.885	156602.110	407302.860
3	01:21:49	1051.601	1051.601	70559.762	16450.091	44034.951	64807.606	66325.486	117811.920	314234.030
x		1288.080	1288.080	85678.354	19642.840	53465.474	79168.697	80831.689	143383.500	377276.590
σ		214.584	214.584	13093.126	2765.279	8169.352	12437.349	12563.195	22149.867	54616.919
%RSD		16.659	16.659	15.282	14.078	15.280	15.710	15.542	15.448	14.477
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	01:19:33	423485.210	154112.750	375288.990	124534.200	116342.130	277274.350	390289.240	652156.730	
2	01:20:41	421396.670	154013.250	373699.700	123070.030	117292.040	276227.800	391779.200	650667.640	
3	01:21:49	328629.100	125654.890	305874.260	101256.020	95239.855	228020.990	320502.250	556504.170	
x		391170.330	144593.630	351620.980	116286.750	109624.680	260507.720	367523.560	619776.180	
σ		54172.356	16401.508	39625.794	13037.567	12466.672	28139.193	40728.466	54800.223	
%RSD		13.849	11.343	11.269	11.212	11.372	10.802	11.082	8.842	

S3 (S) 11/17/2011 01:26:17 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	01:27:25	11102.750	9421.335	1414.133	425.006	7704582.200	6251720.900	930639.750	1154474.200	1755286.900
2	01:28:33	10869.759	9437.491	1437.572	457.820	7729644.100	6286113.600	928497.500	1152065.900	1833122.400
3	01:29:41	10941.689	9442.182	1462.575	437.507	7664418.400	6223714.000	926960.130	1154660.200	1825285.900
x		10971.399	9433.669	1438.093	440.111	7699548.200	6253849.500	928699.130	1153733.400	1804565.100
σ		119.303	10.936	24.225	16.561	32902.944	31254.214	1848.076	1447.102	42855.678
%RSD		1.087	0.116	1.685	3.763	0.427	0.500	0.199	0.125	2.375
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	01:27:25	21322.150	103739.360	29137.497	190255.390	5497603.800	23998.265	400405.690	83848.475	13522.022
2	01:28:33	21272.076	103761.400	29040.425	190841.260	5494320.800	24355.118	403101.820	82380.597	13375.008
3	01:29:41	20752.562	103438.760	29027.899	191233.950	5480404.300	23769.759	402094.320	82478.032	12994.970
x		21115.596	103646.510	29068.607	190776.870	5490776.300	24041.047	401867.280	82902.368	13297.333
σ		315.392	180.252	59.988	492.448	9131.189	295.016	1362.329	820.800	271.976
%RSD		1.494	0.174	0.206	0.258	0.166	1.227	0.339	0.990	2.045
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	01:27:25	202596.790	187090.570	22693.010	688259.880	513098.780	11322959.000	289468.940	238208.660	52744.063
2	01:28:33	203874.140	186674.240	22318.984	693075.130	513707.580	11343596.000	290302.790	239395.440	53609.777
3	01:29:41	202362.250	187388.180	22380.017	689418.470	510945.500	11346234.000	289851.580	238230.900	53269.445
x		202944.390	187051.000	22464.003	690251.160	512583.960	11337596.000	289874.440	238611.670	53207.762
σ		813.682	358.613	200.659	2513.301	1451.225	12744.739	417.397	678.858	436.141
%RSD		0.401	0.192	0.893	0.364	0.283	0.112	0.144	0.285	0.820
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	01:27:25	262050.370	127373.130	80768.305	37094.452	1998.577	1998.577	6792.239	2761.725	17.708
2	01:28:33	263369.610	127390.470	81536.714	37315.861	2100.154	2100.154	6988.688	2724.218	9.896
3	01:29:41	261261.110	127119.320	80765.162	37034.923	2037.645	2037.645	6958.986	2698.692	22.396
x		262227.030	127294.310	81023.393	37148.412	2045.459	2045.459	6913.305	2728.212	16.667
σ		1065.294	151.790	444.551	148.038	51.237	51.237	105.892	31.706	6.315
%RSD		0.406	0.119	0.549	0.399	2.505	2.505	1.532	1.162	37.889
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	01:27:25	35277.880	61384.725	65738.407	38177.508	99946.847	1.563	183831.480	3744.241	187540.160
2	01:28:33	35359.331	61731.527	67226.558	38896.631	101115.970	3.125	182014.690	3748.929	188323.800
3	01:29:41	35468.977	62211.729	66567.231	38475.180	101043.580	3.125	181353.230	3777.062	187055.740
x		35368.729	61775.994	66510.732	38516.440	100702.130	2.604	182399.800	3756.744	187639.900
σ		95.895	415.291	745.683	361.333	655.098	0.902	1283.224	17.751	639.887
%RSD		0.271	0.672	1.121	0.938	0.651	34.641	0.704	0.473	0.341
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	01:27:25	2701.818	2701.818	183095.560	41069.889	115033.160	167619.830	171208.890	306270.100	406166.500
2	01:28:33	2844.033	2844.033	182299.530	42008.549	115201.700	169918.620	173552.540	307634.900	404928.980
3	01:29:41	2690.878	2690.878	182424.550	41312.775	115263.130	169819.010	171028.620	305456.080	401345.580
x		2745.577	2745.577	182606.550	41463.738	115165.990	169119.150	171930.020	306453.690	404147.020
σ		85.441	85.441	428.082	487.200	119.068	1299.409	1408.033	1100.953	2503.779
%RSD		3.112	3.112	0.234	1.175	0.103	0.768	0.819	0.359	0.620
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	01:27:25	423205.220	305655.590	742002.400	244544.050	230086.530	547877.000	393519.830	1296957.700	
2	01:28:33	423934.180	305339.560	742051.750	243576.160	231531.470	548842.720	391520.700	1300397.100	
3	01:29:41	419499.870	304361.200	739418.790	243998.910	228754.450	546953.550	386221.530	1294941.200	
x		422213.090	305118.780	741157.650	244039.710	230124.150	547891.090	390420.680	1297432.000	
σ		2377.819	674.846	1506.095	485.232	1388.890	944.665	3771.447	2758.733	
%RSD		0.563	0.221	0.203	0.199	0.604	0.172	0.966	0.213	

S4 (S) 11/17/2011 01:34:09 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	01:35:17	10519.497	18166.752	2895.606	450.007	14715784.000	12004260.000	1767279.300	2199326.900	3381214.500
2	01:36:25	10339.678	18006.132	2847.159	428.131	14712313.000	12026342.000	1769971.000	2184212.600	3361294.600
3	01:37:33	10866.631	18270.009	2915.923	468.758	14830701.000	12029910.000	1776716.500	2208661.600	3365639.400
x		10575.269	18147.631	2886.229	448.965	14752933.000	12020171.000	1771322.300	2197400.400	3369382.800
σ		267.867	132.973	35.328	20.333	67371.495	13893.995	4861.508	12337.837	10474.272
%RSD		2.533	0.733	1.224	4.529	0.457	0.116	0.274	0.561	0.311
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	01:35:17	39570.353	202691.870	37160.770	188751.260	10521447.000	47263.994	782157.020	81571.285	26513.644
2	01:36:25	39582.887	198999.880	37618.214	187757.040	10409366.000	47169.934	781710.090	81154.861	26011.159
3	01:37:33	39282.059	199613.040	37469.387	188947.580	10503197.000	47311.025	78486.580	81553.999	25658.960
x		39478.433	200434.930	37416.124	188485.290	10478004.000	47248.318	782911.900	81426.715	26061.254
σ		170.181	1978.466	233.327	638.281	60137.831	71.840	1709.213	235.591	429.538
%RSD		0.431	0.987	0.624	0.339	0.574	0.152	0.218	0.289	1.648
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	01:35:17	396129.550	363691.630	43165.115	1328986.800	990352.940	21812948.000	559908.390	464033.180	103999.060
2	01:36:25	394459.270	364688.440	43569.464	1334715.400	997053.610	21996899.000	562382.470	464183.250	103467.090
3	01:37:33	394403.060	364113.100	43807.691	1336971.900	999903.780	21860342.000	563321.530	466029.420	102450.430
x		394997.290	364164.390	43514.090	1333558.000	995770.110	21890063.000	561870.800	464748.620	103305.520
σ		980.963	500.380	324.848	4116.425	4903.077	95509.050	1763.161	1111.744	786.855
%RSD		0.248	0.137	0.747	0.309	0.492	0.436	0.314	0.239	0.762
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	01:35:17	507389.250	243824.090	155777.540	72510.640	3994.308	3994.308	13147.714	5298.378	17.188
2	01:36:25	505219.020	244857.160	156207.190	72107.043	4045.885	4045.885	13120.085	5364.549	16.146
3	01:37:33	507887.750	245330.810	156782.190	72865.041	3959.924	3959.924	13027.813	5484.386	22.396
x		506832.010	244670.680	156255.640	72494.241	4000.039	4000.039	13098.537	5382.438	18.576
σ		1418.952	770.473	504.075	379.265	43.266	43.266	62.788	94.285	3.348
%RSD		0.280	0.315	0.323	0.523	1.082	1.082	0.479	1.752	18.026
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	01:35:17	68017.790	118927.350	127420.420	74489.009	192725.680	1.563	177045.000	6942.311	360267.420
2	01:36:25	69189.019	120247.710	129028.510	75290.067	197222.360	4.688	177494.280	7078.316	361669.380
3	01:37:33	69185.879	121476.790	130871.730	76279.671	196865.930	1.563	178199.860	7050.177	361893.700
x		68797.563	120217.290	129106.890	75352.916	195604.660	2.604	177579.710	7023.601	361276.830
σ		675.305	1274.993	1726.986	896.984	2499.632	1.804	582.147	71.791	881.340
%RSD		0.982	1.061	1.338	1.190	1.278	69.282	0.328	1.022	0.244
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	01:35:17	5343.187	5343.187	350601.660	78918.949	221822.990	329153.470	335073.100	596752.730	399483.530
2	01:36:25	5422.904	5422.904	351925.820	80400.614	223625.770	328563.560	336467.810	597080.060	398044.180
3	01:37:33	5426.030	5426.030	352556.720	81778.716	226566.880	335418.570	337142.830	597759.150	397962.250
x		5397.374	5397.374	351694.730	80366.093	224005.210	331045.200	336227.910	597197.310	398496.650
σ		46.953	46.953	997.802	1430.196	2394.602	3798.917	1055.511	513.353	855.640
%RSD		0.870	0.870	0.284	1.780	1.069	1.148	0.314	0.086	0.215
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	01:35:17	415953.070	590969.620	1432630.000	471498.300	443998.830	1049638.200	378375.060	2515584.900	
2	01:36:25	414010.350	592247.500	1438193.300	474805.170	446701.470	1066078.700	381181.010	2523594.600	
3	01:37:33	416700.970	595710.560	1447140.600	477689.600	449698.000	1072003.100	381680.010	2553890.600	
x		415554.800	592975.890	1439321.300	474664.360	446799.430	1062573.300	380412.030	2531023.400	
σ		1388.822	2452.967	7320.737	3098.049	2850.848	11587.154	1781.619	20204.456	
%RSD		0.334	0.414	0.509	0.653	0.638	1.090	0.468	0.798	

S5 (S) 11/17/2011 01:42:02 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	01:43:10	10669.608	35429.818	5471.360	603.138	29655733.000	24119299.000	3532498.300	4287950.700	6508402.800
2	01:44:18	10652.408	35913.314	5698.011	535.948	29874898.000	24327187.000	3569533.300	4349149.500	6611587.900
3	01:45:26	10380.332	35921.146	5763.663	617.201	30045061.000	24479489.000	3581024.400	4355267.300	6599477.600
X		10567.449	35754.759	5644.345	585.429	29858564.000	24308658.000	3561018.700	4330789.200	6573156.100
$\sigma$		162.276	281.435	153.363	43.425	195177.690	180808.730	25358.828	37225.096	56403.983
%RSD		1.536	0.787	2.717	7.418	0.654	0.744	0.712	0.860	0.858
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	01:43:10	76912.739	386154.120	53278.855	185005.870	20666923.000	95112.448	1569396.200	82740.480	52344.159
2	01:44:18	78144.396	389334.010	53376.092	183651.060	20936527.000	95488.381	1592795.200	82080.439	53048.312
3	01:45:26	77292.908	390904.150	53732.110	185572.520	20849576.000	96210.388	1584659.100	82682.332	53187.892
X		77450.014	388797.430	53462.352	184743.150	20817675.000	95603.739	1582283.500	82501.084	52860.121
$\sigma$		630.680	2420.052	238.623	987.307	137603.880	557.986	11878.983	365.448	452.253
%RSD		0.814	0.622	0.446	0.534	0.661	0.584	0.751	0.443	0.856
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	01:43:10	782909.080	715850.190	85489.407	2554254.700	1974058.400	43255496.000	1103650.700	914603.740	202409.790
2	01:44:18	792563.980	724455.630	85843.081	2569582.100	1991224.900	43467235.000	1119002.200	918718.060	203512.800
3	01:45:26	794615.560	723080.720	86836.558	2588094.400	2000349.400	43733359.000	1114605.800	920361.110	202682.360
X		790029.540	721128.850	86056.349	2570643.700	1988544.200	43485364.000	1112419.600	917894.300	202868.320
$\sigma$		6251.236	4622.851	698.439	16944.809	13348.918	239446.360	7905.774	2965.764	574.534
%RSD		0.791	0.641	0.812	0.659	0.671	0.551	0.711	0.323	0.283
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	01:43:10	990100.360	478329.230	308013.240	144313.280	7836.524	7836.524	25710.615	10596.116	20.313
2	01:44:18	997294.590	482760.550	312720.100	146178.450	8189.847	8189.847	26099.340	10705.572	19.792
3	01:45:26	999160.640	483705.790	310902.960	145837.490	8038.198	8038.198	26068.033	10596.637	20.833
X		995518.530	481598.520	310545.430	145443.080	8021.523	8021.523	25959.330	10632.775	20.313
$\sigma$		4784.134	2870.468	2373.714	993.173	177.251	177.251	215.961	63.045	0.521
%RSD		0.481	0.596	0.764	0.683	2.210	2.210	0.832	0.593	2.564
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	01:43:10	138947.450	242849.890	261227.700	151854.390	394435.180	1.563	181202.900	14146.063	725546.450
2	01:44:18	141795.550	248680.160	267070.180	156057.130	404086.880	1.563	178661.820	14314.981	735413.530
3	01:45:26	141454.690	249416.270	266379.340	154752.430	400680.420	9.375	178630.180	14590.259	734774.040
X		140732.560	246982.110	264892.410	154221.310	399734.160	4.167	179498.300	14350.434	731911.340
$\sigma$		1555.317	3597.481	3192.474	2151.120	4894.933	4.511	1476.313	224.210	5521.422
%RSD		1.105	1.457	1.205	1.395	1.225	108.253	0.822	1.562	0.754
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	01:43:10	10641.462	10641.462	704104.710	161646.900	458263.860	676210.670	683105.480	1209185.800	413929.940
2	01:44:18	11032.383	11032.383	711462.380	164207.100	463011.770	685439.970	694717.720	1233041.900	411561.400
3	01:45:26	10966.708	10966.708	712637.590	164704.970	464417.240	686151.040	689541.390	1226862.700	415499.530
X		10880.184	10880.184	709401.560	163519.650	461897.620	682600.560	689121.530	1223030.100	413663.630
$\sigma$		209.331	209.331	4624.689	1640.848	3224.440	5545.216	5817.494	12381.247	1982.527
%RSD		1.924	1.924	0.652	1.003	0.698	0.812	0.844	1.012	0.479
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	01:43:10	432694.150	1213377.600	2934670.300	966963.730	910038.060	2161261.500	390639.240	5282212.900	
2	01:44:18	429961.930	1219552.900	2957844.100	982752.480	919911.620	2188835.800	391313.570	5349679.500	
3	01:45:26	431238.620	1224075.700	2965026.700	980514.060	914958.200	2174773.800	389557.160	5357376.200	
X		431298.230	1219002.100	2952513.700	976743.430	914969.300	2174957.000	390503.320	5329756.200	
$\sigma$		1367.088	5370.253	15864.683	8543.093	4936.793	13788.023	886.059	41353.167	
%RSD		0.317	0.441	0.537	0.875	0.540	0.634	0.227	0.776	

ICV12 11/17/2011 01:49:56 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	01:51:03	10719.645	3629.107	3025.320	414.069	783169.670	329692.250	48308.103	59343.314	203644.340
2	01:52:12	10378.769	3627.544	2908.109	393.755	779774.090	332079.400	47599.480	59092.277	204833.030
3	01:53:20	10639.898	3512.932	2854.973	371.880	768496.300	324276.630	47563.423	58279.573	203384.420
x		10579.437	3589.861	2929.467	393.235	777146.690	328682.760	47823.669	58905.055	203953.930
$\sigma$		178.300	66.627	87.159	21.099	7681.434	3998.137	419.920	556.035	772.333
%RSD		1.685	1.856	2.975	5.366	0.988	1.216	0.878	0.944	0.379
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	01:51:03	39971.467	1411.007	19129.987	184999.540	1085968.100	2014.205	34264.480	82482.746	25590.087
2	01:52:12	39911.926	1376.629	19773.050	185050.190	1082975.100	2050.147	34134.482	81854.146	25864.017
3	01:53:20	39548.417	1281.308	19625.972	186503.280	1075784.600	2018.893	33924.608	81838.431	25859.321
x		39810.603	1356.315	19509.670	185517.670	1081575.900	2027.748	34107.857	82058.441	25771.142
$\sigma$		229.003	67.194	336.938	853.938	5233.981	19.539	171.493	367.543	156.816
%RSD		0.575	4.954	1.727	0.460	0.484	0.964	0.503	0.448	0.608
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	01:51:03	80983.581	75134.564	9041.923	64479.564	103868.420	1061807.200	27150.776	95460.067	21824.471
2	01:52:12	80664.596	75403.161	9091.955	64408.934	104294.950	1059973.600	26967.617	96196.231	21725.883
3	01:53:20	80806.017	75525.681	9082.574	63019.947	104046.270	1047356.100	26753.152	95568.602	22068.595
x		80818.065	75354.469	9072.151	63969.482	104069.880	1056379.000	26957.182	95741.633	21872.983
$\sigma$		159.833	200.053	26.595	823.079	214.242	7867.642	199.017	397.415	176.431
%RSD		0.198	0.265	0.293	1.287	0.206	0.745	0.738	0.415	0.807
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	01:51:03	54000.306	25796.708	32618.446	29554.498	1621.967	1621.967	5567.752	2247.573	21.354
2	01:52:12	53498.423	25768.532	32662.296	29337.385	1689.162	1689.162	5560.978	2112.135	19.792
3	01:53:20	53644.281	26083.165	33085.143	29472.036	1582.900	1582.900	5507.832	2200.169	13.542
x		53714.337	25882.802	32788.628	29454.640	1631.343	1631.343	5545.521	2186.626	18.229
$\sigma$		258.171	174.091	257.723	109.597	53.748	53.748	32.814	68.727	4.134
%RSD		0.481	0.673	0.786	0.372	3.295	3.295	0.592	3.143	22.678
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	01:51:03	70485.962	123366.320	132525.930	77486.138	200498.750	1.563	184659.240	1645.407	69165.468
2	01:52:12	70993.151	123980.980	133998.950	78210.381	201221.300	4.688	184518.370	1667.285	69934.825
3	01:53:20	70556.622	124846.280	133607.820	78210.381	202775.870	7.813	186655.240	1581.338	68856.167
x		70678.578	124064.530	133377.570	77968.966	201498.640	4.688	185277.620	1631.343	69318.820
$\sigma$		274.710	743.509	763.025	418.142	1163.616	3.125	1195.134	44.666	555.440
%RSD		0.389	0.599	0.572	0.536	0.577	66.667	0.645	2.738	0.801
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	01:51:03	1218.802	1218.802	67554.663	17579.560	233186.180	135074.640	14609.029	26235.005	412292.990
2	01:52:12	1154.734	1154.734	67901.614	17333.947	235015.800	135035.210	14538.644	25929.761	407167.840
3	01:53:20	1190.675	1190.675	66958.114	16920.953	232038.030	133983.180	14594.952	25943.849	407727.210
x		1188.070	1188.070	67471.464	17278.153	233413.340	134697.680	14580.875	26036.205	409062.680
$\sigma$		32.113	32.113	477.221	332.830	1501.827	619.083	37.244	172.310	2811.472
%RSD		2.703	2.703	0.707	1.926	0.643	0.460	0.255	0.662	0.687
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	01:51:03	430997.120	256841.420	620542.630	207676.770	185165.730	452699.990	400776.820	4896.151	
2	01:52:12	422125.540	255195.120	616290.940	207494.460	183893.200	449796.340	396547.150	4763.294	
3	01:53:20	422217.250	250430.660	612635.520	206311.890	184312.620	448221.420	397984.740	3903.658	
x		425113.300	254155.730	616489.700	207161.040	184457.180	450239.250	398436.240	4521.035	
$\sigma$		5095.741	3329.370	3957.298	741.012	648.465	2271.901	2150.678	538.774	
%RSD		1.199	1.310	0.642	0.358	0.352	0.505	0.540	11.917	

ICB12 11/17/2011 01:57:49 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	01:58:57	10658.662	19.271	87.500	382.818	147804.430	4999.312	676.579	784.397	15908.853
2	02:00:05	10514.806	20.313	62.500	421.881	145316.600	3381.650	440.632	570.324	15563.160
3	02:01:13	10886.959	13.542	73.438	389.068	143782.450	2804.963	359.380	459.382	15339.481
x		10686.809	17.708	74.479	397.922	145634.490	3728.642	492.197	604.701	15603.832
σ		187.667	3.646	12.533	20.983	2029.749	1137.583	164.767	165.212	286.857
%RSD		1.756	20.588	16.827	5.273	1.394	30.509	33.476	27.321	1.838
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	01:58:57	1246.929	1226.615	19758.968	189064.740	232568.420	31.250	717.206	83365.976	45.313
2	02:00:05	1234.428	1082.853	20157.962	191363.800	231415.550	26.563	659.390	83240.246	60.938
3	02:01:13	1181.299	1110.981	19777.744	190372.560	230631.140	45.313	612.513	83526.283	53.125
x		1220.886	1140.150	19898.224	190267.040	231538.370	34.375	663.036	83377.502	53.125
σ		34.848	76.190	225.135	1153.157	974.462	9.758	52.441	143.367	7.813
%RSD		2.854	6.682	1.131	0.606	0.421	28.386	7.909	0.172	14.706
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	01:58:57	1009.411	870.339	423.444	5899.655	576.574	93042.634	3276.938	182.814	118.750
2	02:00:05	1048.476	895.341	379.693	5660.496	417.194	88979.371	3319.136	93.750	79.688
3	02:01:13	912.529	746.895	342.192	5247.839	365.630	86215.627	3050.326	56.250	78.125
x		990.139	837.525	381.776	5602.664	453.132	89412.544	3215.467	110.938	92.188
σ		69.992	79.477	40.666	329.734	109.969	3434.055	144.564	65.009	23.017
%RSD		7.069	9.490	10.652	5.885	24.269	3.841	4.496	58.599	24.968
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	01:58:57	251.565	140.626	128.126	55.208	17.188	17.188	343.754	15.104	13.542
2	02:00:05	157.813	67.188	82.813	29.688	4.688	4.688	334.379	17.708	13.542
3	02:01:13	159.376	62.500	79.688	36.979	4.688	4.688	308.858	14.063	13.542
x		189.585	90.104	96.875	40.625	8.854	8.854	328.997	15.625	13.542
σ		53.682	43.815	27.109	13.145	7.217	7.217	18.060	1.878	0.000
%RSD		28.316	48.627	27.983	32.358	81.508	81.508	5.489	12.019	0.000
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	01:58:57	526.572	1001.598	992.222	615.638	1498.516	0.000	188347.550	132.813	132.813
2	02:00:05	435.944	726.581	800.022	462.507	1175.048	0.000	186781.880	120.313	65.625
3	02:01:13	362.505	589.075	582.824	401.568	982.846	0.000	187799.780	125.001	50.000
x		441.674	772.418	791.690	493.238	1218.804	0.000	187643.070	126.042	82.813
σ		82.184	210.047	204.826	110.294	260.605	0.000	794.511	6.315	44.001
%RSD		18.607	27.193	25.872	22.361	21.382	0.000	0.423	5.010	53.133
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	01:58:57	6.250	6.250	114.063	31.250	648.452	1362.565	103.125	153.126	408113.000
2	02:00:05	1.563	1.563	89.063	17.188	465.633	960.970	50.000	95.313	409548.530
3	02:01:13	4.688	4.688	39.063	4.688	398.443	778.146	25.000	54.688	405721.300
x		4.167	4.167	80.729	17.708	504.176	1033.894	59.375	101.042	407794.270
σ		2.387	2.387	38.188	13.289	129.384	298.956	39.898	49.469	1933.418
%RSD		57.282	57.282	47.304	75.043	25.663	28.916	67.196	48.958	0.474
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	01:58:57	423337.170	335.941	846.900	320.316	332.816	748.457	397780.740	581.262	
2	02:00:05	426848.750	256.252	604.700	246.877	190.626	532.822	399669.880	303.128	
3	02:01:13	423453.030	193.751	434.382	189.064	151.563	434.382	396751.130	198.439	
x		424546.320	261.982	628.661	252.086	225.002	571.887	398067.250	360.943	
σ		1994.808	71.268	207.300	65.781	95.391	160.641	1480.319	197.852	
%RSD		0.470	27.203	32.975	26.095	42.396	28.090	0.372	54.815	

ICSA12 11/17/2011 02:05:43 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	02:06:51	10075.427	32.292	51.563	3128.468	27898296.000	22874617.000	3350836.200	4081617.200	30518872.000
2	02:07:59	9970.666	30.208	34.375	3153.473	28459853.000	23216229.000	3398302.900	4142238.100	31066278.000
3	02:09:07	10094.190	27.604	46.875	3142.533	28313296.000	23004002.000	3372748.100	4121704.000	30690089.000
x		10046.761	30.035	44.271	3141.491	28223815.000	23031616.000	3373962.400	4115186.400	30758413.000
σ		66.565	2.349	8.885	12.535	291275.810	172472.080	23756.643	30831.512	280025.850
%RSD		0.663	7.820	20.069	0.399	1.032	0.749	0.704	0.749	0.910
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	02:06:51	3481.674	1814757.100	178421.340	373863.270	38111203.000	88441.673	1463395.200	76059.753	102237.970
2	02:07:59	3684.850	1830787.300	180633.260	379759.520	38762673.000	91155.527	1492936.200	76386.489	104866.300
3	02:09:07	3466.045	1819793.500	180130.090	378187.380	38393830.000	90062.691	1484955.900	77572.542	104014.790
x		3544.190	1821779.300	179728.230	377270.060	38422568.000	89886.630	1480429.100	76672.928	103706.360
σ		122.066	8197.497	1159.421	3053.286	326684.320	1365.467	15281.931	796.033	1341.034
%RSD		3.444	0.450	0.645	0.809	0.850	1.519	1.032	1.038	1.293
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	02:06:51	13038.760	14684.105	6073.166	4716956.300	8038.198	80379234.000	2052756.900	1187.549	1362.565
2	02:07:59	14790.465	14909.339	6623.410	4778265.800	8235.185	81253562.000	2087047.200	1284.433	1331.312
3	02:09:07	16019.915	14804.542	6972.013	4734367.100	7927.199	81119670.000	2066349.900	1206.301	1271.932
x		14616.380	14799.329	6556.196	4743196.400	8066.861	80917489.000	2068718.000	1226.094	1321.936
σ		1498.182	112.707	453.178	31594.033	155.981	470925.400	17267.413	51.385	46.038
%RSD		10.250	0.762	6.912	0.666	1.934	0.582	0.835	4.191	3.483
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	02:06:51	4141.225	2029.832	1993.889	219.793	64.063	64.063	275.003	22.396	16.146
2	02:07:59	4225.625	2062.649	1943.882	200.522	54.688	54.688	302.087	21.875	19.792
3	02:09:07	4144.351	2072.025	1943.882	238.023	68.750	68.750	278.649	17.188	17.708
x		4170.400	2054.835	1960.551	219.446	62.500	62.500	285.246	20.486	17.882
σ		47.851	22.155	28.871	18.753	7.160	7.160	14.698	2.869	1.829
%RSD		1.147	1.078	1.473	8.545	11.456	11.456	5.153	14.002	10.229
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	02:06:51	267869.310	470482.820	503151.050	295330.850	763456.900	4.688	169675.130	156.251	85.938
2	02:07:59	273063.140	481107.730	517657.330	300842.520	781207.100	6.250	168903.560	126.563	106.250
3	02:09:07	273321.130	478367.990	515122.830	300161.230	780065.960	14.063	170679.170	117.188	93.750
x		271417.860	476652.850	511977.070	298778.200	774909.980	8.333	169752.620	133.334	95.313
σ		3075.840	5516.200	7747.897	3004.862	9935.063	5.023	890.335	20.393	10.246
%RSD		1.133	1.157	1.513	1.006	1.282	60.273	0.524	15.294	10.750
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	02:06:51	432.819	432.819	93.750	515.634	421.881	1332.875	254.690	395.318	398256.220
2	02:07:59	437.507	437.507	76.563	578.137	409.381	1210.989	207.814	432.819	394038.520
3	02:09:07	439.069	439.069	62.500	548.448	384.380	1150.046	218.752	382.818	398272.280
x		436.465	436.465	77.604	547.406	405.214	1231.303	227.085	403.652	396855.670
σ		3.253	3.253	15.651	31.264	19.095	93.092	24.524	26.022	2439.738
%RSD		0.745	0.745	20.168	5.711	4.712	7.560	10.799	6.447	0.615
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	02:06:51	415805.110	551.573	1362.565	4719.530	3986.494	9829.943	370595.380	410.943	
2	02:07:59	412161.140	379.693	1093.792	4952.421	4094.337	9831.507	371491.650	412.506	
3	02:09:07	417973.270	356.254	810.961	4863.328	4095.900	9651.697	375879.210	339.067	
x		415313.170	429.173	1089.106	4845.093	4058.910	9771.049	372655.410	387.505	
σ		2937.129	106.647	275.832	117.512	62.719	103.365	2827.625	41.956	
%RSD		0.707	24.849	25.326	2.425	1.545	1.058	0.759	10.827	

ICSAB12 11/17/2011 02:13:37 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	02:14:45	9992.556	711.476	40.625	3080.020	28213088.000	22888117.000	3334351.000	4078520.200	30437862.000
2	02:15:53	9903.432	697.413	34.375	3047.200	28048943.000	22888578.000	3327627.200	4075052.400	30355224.000
3	02:17:01	10133.280	727.623	23.438	3194.107	28198665.000	23016988.000	3349333.600	4075881.200	30461797.000
x		10009.756	712.171	32.813	3107.109	28153565.000	22931227.000	3337103.900	4076484.600	30418294.000
σ		115.886	15.117	8.700	77.109	90892.427	74270.850	11112.014	1810.931	55916.230
%RSD		1.158	2.123	26.513	2.482	0.323	0.324	0.333	0.044	0.184
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	02:14:45	3391.027	1810084.200	177182.630	375248.900	38036937.000	88458.967	1468011.200	76832.622	103112.980
2	02:15:53	3594.202	1811566.600	177897.690	376573.710	37983624.000	89745.076	1462088.100	76736.797	101824.100
3	02:17:01	3475.423	1809891.200	177981.530	376868.840	37983661.000	89303.258	1471668.100	77145.238	103347.480
x		3486.884	1810514.000	177687.280	376230.480	38001407.000	89169.100	1467255.800	76904.886	102761.520
σ		102.071	916.667	439.048	862.789	30769.539	653.466	4834.463	213.594	820.254
%RSD		2.927	0.051	0.247	0.229	0.081	0.733	0.329	0.278	0.798
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	02:14:45	30449.604	28553.507	8802.711	4690893.100	26435.374	79901345.000	2045829.400	18335.196	5113.415
2	02:15:53	31609.933	28068.172	9074.756	4701390.000	26521.471	80006431.000	2041521.900	18343.019	5149.365
3	02:17:01	32419.557	28129.229	9537.558	4702438.400	26637.311	80322479.000	2058724.900	18619.939	5371.322
x		31493.031	28250.303	9138.342	4698240.500	26531.385	80076751.000	2048692.100	18432.718	5211.368
σ		990.166	264.351	371.527	6384.604	101.333	219196.890	8951.618	162.185	139.686
%RSD		3.144	0.936	4.066	0.136	0.382	0.274	0.437	0.880	2.680
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	02:14:45	13296.810	6637.479	4683.580	2957.598	212.502	212.502	782.834	225.523	22.917
2	02:15:53	13470.410	6598.399	4703.899	2969.059	223.439	223.439	798.460	255.211	17.188
3	02:17:01	13146.671	6756.285	4828.941	3002.399	206.251	206.251	744.290	234.898	11.458
x		13304.631	6664.054	4738.807	2976.352	214.064	214.064	775.195	238.544	17.188
σ		162.011	82.230	78.717	23.274	8.700	8.700	27.881	15.176	5.729
%RSD		1.218	1.234	1.661	0.782	4.064	4.064	3.597	6.362	33.333
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	02:14:45	267350.350	470745.970	506749.960	294975.180	762699.240	4.688	169232.420	385.943	13415.671
2	02:15:53	268883.410	473949.320	508862.150	295562.130	766985.450	10.938	170650.710	420.319	13229.560
3	02:17:01	270107.750	473266.280	508224.410	297136.470	767599.980	9.375	170766.140	401.568	13454.771
x		268780.500	472653.860	507945.510	295891.260	765761.560	8.333	170216.420	402.610	13366.667
σ		1381.576	1687.204	1083.363	1117.605	2669.785	3.253	854.121	17.212	120.337
%RSD		0.514	0.357	0.213	0.378	0.349	39.031	0.502	4.275	0.900
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	02:14:45	615.638	615.638	13248.328	3581.699	317.191	14039.708	2811.214	5033.699	395898.270
2	02:15:53	656.265	656.265	13565.813	3678.599	315.628	13947.430	2806.526	5114.978	398217.660
3	02:17:01	621.889	621.889	12980.895	3605.142	285.940	13825.437	2890.918	5029.010	399258.620
x		631.264	631.264	13265.012	3621.813	306.253	13937.525	2836.219	5059.229	397791.520
σ		21.876	21.876	292.816	50.555	17.609	107.479	47.428	48.337	1720.231
%RSD		3.465	3.465	2.207	1.396	5.750	0.771	1.672	0.955	0.432
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	02:14:45	416044.750	23459.872	57168.849	24746.415	20794.811	50943.798	371401.860	260.940	
2	02:15:53	413611.540	23808.886	57608.108	24902.937	21553.747	51171.171	373767.050	223.439	
3	02:17:01	417197.970	24045.219	58113.273	24661.894	20995.104	52537.053	377075.750	220.314	
x		415618.090	23771.326	57630.077	24770.415	21114.554	51550.674	374081.560	234.898	
σ		1830.889	294.476	472.595	122.300	393.316	861.761	2849.991	22.607	
%RSD		0.441	1.239	0.820	0.494	1.863	1.672	0.762	9.624	

ICSA12X10 11/17/2011 02:21:31 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	02:22:39	10297.460	17.188	26.563	678.141	3082613.200	2426273.400	353636.030	439186.260	3238882.600
2	02:23:47	10145.789	12.500	18.750	681.266	3084432.100	2431962.700	354699.410	440367.100	3247231.100
3	02:24:55	10209.897	14.063	21.875	670.328	3109552.900	2461608.900	357914.050	444606.360	3277589.400
x		10217.715	14.583	22.396	676.579	3092199.400	2439948.300	355416.500	441386.570	3254567.700
$\sigma$		76.137	2.387	3.932	5.634	15056.095	18973.070	2227.336	2850.238	20369.664
%RSD		0.745	16.366	17.558	0.833	0.487	0.778	0.627	0.646	0.626
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	02:22:39	1450.074	192030.470	36390.039	201885.260	4262677.700	9418.729	153451.000	78827.823	10811.902
2	02:23:47	1525.081	192451.710	36571.752	201032.740	4268942.000	9393.712	154316.500	79160.907	10872.886
3	02:24:55	1528.207	193919.800	35968.662	202611.050	4280360.100	9074.756	154791.910	77998.288	10804.084
x		1501.121	192800.660	36310.151	201843.020	4270659.900	9295.733	154186.470	78662.340	10829.624
$\sigma$		44.236	991.824	309.380	790.004	8965.468	191.779	679.847	598.715	37.669
%RSD		2.947	0.514	0.852	0.391	0.210	2.063	0.441	0.761	0.348
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	02:22:39	4424.122	2247.052	1743.856	517563.390	1323.499	8581628.700	217432.820	212.502	239.065
2	02:23:47	4528.843	2037.645	1711.040	520443.360	1253.180	8587494.300	219850.660	217.189	223.439
3	02:24:55	4292.832	2128.284	1654.783	522335.580	1304.747	8698419.200	220980.390	206.251	281.253
x		4415.266	2137.660	1703.227	520114.110	1293.809	8622514.100	219421.290	211.981	247.919
$\sigma$		118.254	105.018	45.048	2403.070	36.413	65801.178	1812.339	5.487	29.907
%RSD		2.678	4.913	2.645	0.462	2.814	0.763	0.826	2.589	12.063
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	02:22:39	565.636	295.316	350.004	73.959	23.438	23.438	292.711	11.458	19.792
2	02:23:47	554.698	278.128	378.130	58.854	10.938	10.938	299.482	21.875	19.271
3	02:24:55	585.950	298.441	323.441	79.167	12.500	12.500	314.587	17.708	15.625
x		568.761	290.628	350.525	70.660	15.625	15.625	302.260	17.014	18.229
$\sigma$		15.858	10.938	27.348	10.550	6.811	6.811	11.199	5.243	2.270
%RSD		2.788	3.763	7.802	14.931	43.589	43.589	3.705	30.816	12.454
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	02:22:39	28204.377	49360.128	53559.589	31124.494	80947.439	0.000	179615.860	107.813	46.875
2	02:23:47	28780.524	50151.941	54263.802	31285.783	81783.430	1.563	178541.580	139.063	53.125
3	02:24:55	28124.532	49866.569	53987.759	31977.938	81450.285	1.563	178740.930	120.313	39.063
x		28369.811	49792.879	53937.050	31462.738	81393.718	1.042	178966.120	122.396	46.354
$\sigma$		357.921	401.017	354.834	453.406	420.856	0.902	571.449	15.729	7.046
%RSD		1.262	0.805	0.658	1.441	0.517	86.603	0.319	12.851	15.200
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	02:22:39	39.063	39.063	42.188	73.438	121.876	420.319	56.250	112.500	401188.120
2	02:23:47	42.188	42.188	60.938	59.375	118.750	315.628	46.875	110.938	398367.050
3	02:24:55	42.188	42.188	64.063	68.750	121.876	284.378	39.063	87.500	396625.850
x		41.146	41.146	55.729	67.188	120.834	340.108	47.396	103.646	398727.010
$\sigma$		1.804	1.804	11.831	7.160	1.804	71.200	8.606	14.005	2302.339
%RSD		4.385	4.385	21.230	10.657	1.493	20.934	18.157	13.512	0.577
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	02:22:39	419282.690	195.314	460.945	712.518	578.137	1537.583	389618.170	237.502	
2	02:23:47	416660.750	178.126	456.257	745.332	665.641	1528.207	387698.230	182.814	
3	02:24:55	414700.240	168.751	401.568	776.584	620.326	1543.833	387232.730	234.377	
x		416881.230	180.730	439.590	744.811	621.368	1536.541	388183.040	218.231	
$\sigma$		2299.167	13.472	33.011	32.036	43.761	7.865	1264.460	30.712	
%RSD		0.552	7.454	7.510	4.301	7.043	0.512	0.326	14.073	

ICSA12X10 11/17/2011 02:29:25 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	02:30:33	10241.170	93.229	21.875	689.079	3085140.000	2432519.800	355381.680	441638.260	3247693.100
2	02:31:41	10517.933	89.063	20.313	676.579	3066528.000	2411980.600	352567.930	440423.490	3229335.100
3	02:32:49	9925.322	88.542	15.625	714.080	3102188.700	2444112.600	359333.400	446106.750	3273882.600
x		10228.141	90.278	19.271	693.246	3084618.900	2429537.700	355761.000	442722.830	3250303.600
σ		296.520	2.569	3.253	19.095	17836.099	16272.222	3398.650	2992.838	22388.174
%RSD		2.899	2.846	16.878	2.754	0.578	0.670	0.955	0.676	0.689
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	02:30:33	1506.329	193910.300	36816.129	198171.300	4253046.000	9417.165	153638.940	77525.412	10722.773
2	02:31:41	1553.209	191419.220	36111.208	199863.380	4217065.800	9154.495	153092.500	79354.162	10627.389
3	02:32:49	1531.332	195359.530	36534.156	199489.450	4262617.400	9321.790	155003.560	77842.756	10813.466
x		1530.290	193563.020	36487.164	199174.710	4244243.100	9297.817	153911.670	78240.777	10721.209
σ		23.457	1992.976	354.802	888.865	24017.819	132.966	984.291	977.188	93.048
%RSD		1.533	1.030	0.972	0.446	0.566	1.430	0.640	1.249	0.868
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	02:30:33	5311.925	3606.705	1531.332	518708.510	3176.916	8613903.100	220148.950	2072.025	665.641
2	02:31:41	5186.879	3500.429	1578.212	514818.390	3362.896	8523333.800	216768.150	2042.334	653.140
3	02:32:49	5369.759	3703.605	1678.224	526286.050	3215.987	8740362.600	221827.750	2082.964	590.637
x		5289.521	3603.580	1595.923	519937.650	3251.933	8625866.500	219581.610	2065.774	636.473
σ		93.476	101.624	75.030	5831.798	98.062	109007.840	2577.068	21.024	40.184
%RSD		1.767	2.820	4.701	1.122	3.016	1.264	1.174	1.018	6.313
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	02:30:33	1648.533	753.145	640.639	352.088	29.688	29.688	353.650	38.021	16.146
2	02:31:41	1556.335	792.209	612.513	335.941	37.500	37.500	354.171	31.250	15.625
3	02:32:49	1646.970	806.273	635.952	342.712	32.813	32.813	346.879	37.500	11.458
x		1617.279	783.876	629.701	343.581	33.333	33.333	351.567	35.590	14.410
σ		52.785	27.527	15.069	8.108	3.932	3.932	4.068	3.768	2.569
%RSD		3.264	3.512	2.393	2.360	11.797	11.797	1.157	10.587	17.830
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	02:30:33	27607.901	48750.226	53042.039	30850.463	80524.748	1.563	176138.590	167.188	1495.391
2	02:31:41	27656.432	48584.037	52676.628	31403.228	79550.563	0.000	177149.410	145.313	1517.268
3	02:32:49	28597.345	49882.249	53672.512	30928.757	81235.002	1.563	174702.360	165.626	1511.017
x		27953.893	49072.171	53130.393	31060.816	80436.771	1.042	175996.790	159.376	1507.892
σ		557.774	706.452	503.787	299.110	845.659	0.902	1229.670	12.204	11.269
%RSD		1.995	1.440	0.948	0.963	1.051	86.603	0.699	7.657	0.747
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	02:30:33	68.750	68.750	1479.764	406.256	120.313	1550.084	321.879	567.199	393600.120
2	02:31:41	78.125	78.125	1323.499	412.506	109.375	1565.711	290.628	571.886	394004.800
3	02:32:49	65.625	65.625	1461.012	395.318	115.625	1586.026	362.505	612.513	392434.320
x		70.834	70.834	1421.425	404.693	115.105	1567.274	325.004	583.866	393346.410
σ		6.505	6.505	85.323	8.700	5.487	18.022	36.040	24.920	815.398
%RSD		9.184	9.184	6.003	2.150	4.767	1.150	11.089	4.268	0.207
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	02:30:33	409218.970	2620.553	6024.708	2698.692	2328.315	5688.632	385173.480	207.814	
2	02:31:41	412688.540	2540.851	6263.873	2792.460	2437.708	5801.178	382618.690	251.565	
3	02:32:49	410005.100	2836.219	6199.783	2873.727	2378.323	5854.324	381768.260	300.003	
x		410637.540	2665.874	6162.788	2788.293	2381.449	5781.378	383186.810	253.127	
σ		1819.193	152.811	123.800	87.591	54.764	84.602	1772.275	46.114	
%RSD		0.443	5.732	2.009	3.141	2.300	1.463	0.463	18.218	

CCV44 11/17/2011 02:37:19 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	02:38:27	10317.787	17659.867	2750.265	432.819	14425090.000	11748672.000	1721055.800	2136012.500	3259088.400
2	02:39:35	10184.879	17825.176	2773.707	481.258	14533911.000	11805929.000	1734254.800	2131672.300	3253918.700
3	02:40:43	10080.118	17676.033	2800.274	507.822	14453003.000	11697608.000	1725239.200	2135336.400	3266018.000
x		10194.261	17720.359	2774.749	473.966	14470668.000	11750737.000	1726849.900	2134340.400	3259675.000
σ		119.112	91.134	25.021	38.029	56520.212	54189.872	6745.310	2335.232	6070.951
%RSD		1.168	0.514	0.902	8.024	0.391	0.461	0.391	0.109	0.186
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	02:38:27	38410.945	193104.170	36477.763	181891.250	10056577.000	45478.525	755597.300	77872.606	25219.116
2	02:39:35	38483.013	193227.700	36518.491	179157.030	10124784.000	46055.369	763167.010	78083.125	25359.990
3	02:40:43	38595.817	193705.990	36419.802	181983.040	10070276.000	45741.864	758089.920	78029.709	25266.073
x		38496.592	193345.950	36472.019	181010.440	10083879.000	45758.586	758951.410	77995.147	25281.726
σ		93.181	317.857	49.595	1605.758	36080.651	288.785	3857.683	109.433	71.730
%RSD		0.242	0.164	0.136	0.887	0.358	0.631	0.508	0.140	0.284
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	02:38:27	383120.940	351741.680	42536.671	1294780.700	961976.130	2123375.000	546268.700	448817.840	100580.960
2	02:39:35	383547.800	352713.640	42767.045	1291963.800	967145.770	21240486.000	547443.670	451869.620	99201.050
3	02:40:43	382514.390	350723.350	42497.492	1285159.600	966213.900	21325658.000	544426.920	447921.600	99898.070
x		383061.040	351726.220	42600.403	1290634.700	965111.930	21266506.000	546046.430	449536.360	99893.361
σ		519.303	995.240	145.640	4946.346	2755.365	51350.301	1520.609	2069.763	689.968
%RSD		0.136	0.283	0.342	0.383	0.285	0.241	0.278	0.460	0.691
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	02:38:27	490860.930	238817.130	152906.140	70388.608	3916.162	3916.162	12660.816	5101.953	19.271
2	02:39:35	491651.500	237835.330	152893.510	70880.092	4049.011	4049.011	12718.680	5169.164	22.396
3	02:40:43	490875.480	236974.320	150534.280	70129.526	3842.704	3842.704	13017.908	5258.259	14.583
x		491129.310	237875.590	152111.310	70466.076	3935.959	3935.959	12799.135	5176.459	18.750
σ		452.290	922.064	1365.765	381.232	104.569	104.569	191.659	78.408	3.932
%RSD		0.092	0.388	0.898	0.541	2.657	2.657	1.497	1.515	20.972
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	02:38:27	67154.345	117660.680	126846.600	74225.141	191029.690	3.125	171988.480	7092.385	355593.100
2	02:39:35	67768.171	119650.540	127833.460	74702.620	194396.520	1.563	173089.160	7067.373	358093.470
3	02:40:43	67284.643	119089.630	127718.380	73961.278	193037.660	1.563	173185.630	7003.279	354848.360
x		67402.386	118800.280	127466.150	74296.346	192821.290	2.083	172754.420	7054.346	356178.310
σ		323.409	1026.002	539.620	375.766	1693.816	0.902	665.075	45.959	1699.864
%RSD		0.480	0.864	0.423	0.506	0.878	43.301	0.385	0.652	0.477
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	02:38:27	5194.694	5194.694	345994.480	78807.398	221234.270	323491.950	328315.770	587515.830	391735.850
2	02:39:35	5229.082	5229.082	346705.150	80293.766	222160.990	326854.710	330435.690	588519.980	390730.750
3	02:40:43	5118.104	5118.104	346354.610	79055.639	220015.670	325935.630	327700.320	583384.390	393357.640
x		5180.627	5180.627	346351.420	79385.601	221136.980	325427.430	328817.260	586473.400	391941.410
σ		56.810	56.810	355.347	796.227	1075.964	1738.025	1434.986	2721.866	1325.451
%RSD		1.097	1.097	0.103	1.003	0.487	0.534	0.436	0.464	0.338
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	02:38:27	408596.850	587335.180	1425568.600	468699.040	439985.290	1044540.400	374758.140	2533539.800	
2	02:39:35	409198.070	593027.310	1430658.900	472360.470	444364.630	1062960.300	374288.240	2537618.200	
3	02:40:43	411686.810	590198.060	1425577.200	471656.530	443441.280	1053234.300	375486.260	2535078.800	
x		409827.240	590186.850	1427268.300	470905.340	442597.070	1053578.300	374844.220	2535412.200	
σ		1638.250	2846.081	2936.400	1942.865	2308.503	9214.756	603.630	2059.548	
%RSD		0.400	0.482	0.206	0.413	0.522	0.875	0.161	0.081	

CCB44 11/17/2011 02:45:10 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	02:46:18	10852.558	18.750	43.750	359.380	149466.910	9904.995	1506.329	1723.542	19262.978
2	02:47:27	10572.661	20.313	51.563	340.629	145932.200	7286.233	1029.725	1245.367	17620.235
3	02:48:34	10336.551	27.604	35.938	370.317	146476.800	7833.397	1056.289	1331.312	17438.762
x		10587.257	22.222	43.750	356.775	147291.970	8341.542	1197.448	1433.407	18107.325
$\sigma$		258.313	4.726	7.813	15.014	1903.131	1381.354	267.829	254.912	1004.930
%RSD		2.440	21.267	17.857	4.208	1.292	16.560	22.367	17.784	5.550
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	02:46:18	1165.673	1350.064	20164.221	184971.050	231918.930	68.750	1090.667	80589.172	62.500
2	02:47:27	1356.314	1317.248	20048.433	186819.870	231509.240	67.188	903.154	79264.605	70.313
3	02:48:34	1243.804	1195.363	19760.532	185670.660	232201.590	60.938	935.968	78995.935	81.250
x		1255.264	1287.558	19991.062	185820.530	231876.590	65.625	976.596	79616.571	71.354
$\sigma$		95.836	81.512	207.869	933.479	348.113	4.134	100.141	852.943	9.418
%RSD		7.635	6.331	1.040	0.502	0.150	6.299	10.254	1.071	13.199
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	02:46:18	1889.187	942.219	631.264	6567.134	928.155	103858.980	3584.825	334.379	134.376
2	02:47:27	1876.686	856.276	640.639	5834.004	645.327	95080.989	3369.147	232.814	98.438
3	02:48:34	1695.413	870.339	623.451	6046.592	703.142	93226.640	3430.099	223.439	107.813
x		1820.429	889.611	631.785	6149.243	758.875	97388.870	3461.357	263.544	113.542
$\sigma$		108.447	46.099	8.606	377.191	149.424	5679.471	111.184	61.524	18.641
%RSD		5.957	5.182	1.362	6.134	19.690	5.832	3.212	23.345	16.418
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	02:46:18	368.755	159.376	164.063	79.167	15.625	15.625	320.316	19.271	17.188
2	02:47:27	309.378	159.376	140.626	65.625	6.250	6.250	295.836	18.750	16.146
3	02:48:34	285.940	125.001	135.938	44.271	10.938	10.938	311.462	14.063	14.063
x		321.358	147.917	146.876	63.021	10.938	10.938	309.205	17.361	15.799
$\sigma$		42.687	19.847	15.068	17.593	4.688	4.688	12.395	2.869	1.591
%RSD		13.283	13.417	10.259	27.916	42.857	42.857	4.009	16.523	10.072
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	02:46:18	456.257	767.208	909.404	540.635	1254.743	0.000	181497.230	150.001	250.002
2	02:47:27	406.256	684.391	668.766	400.006	1139.108	0.000	177494.280	121.876	171.876
3	02:48:34	329.691	557.823	650.015	357.817	851.588	0.000	179558.900	167.188	159.376
x		397.401	669.808	742.728	432.819	1081.813	0.000	179516.800	146.355	193.751
$\sigma$		63.746	105.451	144.650	95.725	207.595	0.000	2001.808	22.875	49.114
%RSD		16.041	15.744	19.475	22.117	19.190	0.000	1.115	15.630	25.349
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	02:46:18	4.688	4.688	248.440	45.313	493.759	1096.917	276.565	576.574	397491.610
2	02:47:27	1.563	1.563	178.126	20.313	379.693	709.393	170.314	332.816	389693.620
3	02:48:34	1.563	1.563	175.001	43.750	320.316	673.453	170.314	293.753	391644.330
x		2.604	2.604	200.522	36.458	397.922	826.588	205.731	401.048	392943.190
$\sigma$		1.804	1.804	41.527	14.005	88.147	234.801	61.344	153.260	4058.007
%RSD		69.282	69.282	20.709	38.412	22.152	28.406	29.818	38.215	1.033
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	02:46:18	414972.030	514.072	1253.180	414.069	425.006	1053.164	389825.260	1592.276	
2	02:47:27	407019.970	342.192	928.155	304.691	314.066	782.834	384029.220	1007.848	
3	02:48:34	409321.850	410.943	843.775	339.067	360.942	809.398	386221.530	1070.353	
x		410437.950	422.402	1008.370	352.609	366.671	881.799	386692.010	1223.492	
$\sigma$		4091.829	86.511	216.169	55.932	55.692	149.000	2926.522	320.902	
%RSD		0.997	20.481	21.437	15.862	15.188	16.897	0.757	26.228	

## PB59234BL PBW01 11/17/2011 02:53:03 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	02:54:11	10363.132	15.625	29.688	378.130	143286.880	3700.479	490.633	570.324	15666.398
2	02:55:19	10672.735	15.104	29.688	343.754	145981.140	3989.620	553.136	689.079	15678.912
3	02:56:27	10605.498	19.792	29.688	401.568	147168.220	4263.136	635.952	690.642	15660.141
x		10547.122	16.840	29.688	374.484	145478.750	3984.412	559.907	650.015	15668.484
$\sigma$		162.847	2.569	0.000	29.079	1988.846	281.365	72.895	69.019	9.558
%RSD		1.544	15.256	0.000	7.765	1.367	7.062	13.019	10.618	0.061
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	02:54:11	1284.433	1167.235	19843.460	183907.450	227759.050	34.375	737.519	79635.408	60.938
2	02:55:19	1262.556	1217.239	19940.470	185721.310	229294.250	53.125	723.456	80817.016	65.625
3	02:56:27	1284.433	1182.862	19746.450	185243.290	229969.030	37.500	696.892	81007.151	60.938
x		1277.140	1189.112	19843.460	184957.350	229007.450	41.667	719.289	80486.525	62.500
$\sigma$		12.631	25.581	97.010	940.132	1132.564	10.046	20.632	743.194	2.706
%RSD		0.989	2.151	0.489	0.508	0.495	24.109	2.868	0.923	4.330
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	02:54:11	1682.912	728.144	634.389	5352.565	450.007	81308.858	3036.260	81.250	98.438
2	02:55:19	1582.900	668.766	568.761	5154.055	459.382	80325.192	2936.239	128.126	78.125
3	02:56:27	1539.145	748.457	573.449	5210.325	429.694	81082.577	3055.014	132.813	85.938
x		1601.652	715.122	592.200	5238.981	446.361	80905.542	3009.171	114.063	87.500
$\sigma$		73.695	41.411	36.612	102.311	15.176	515.176	63.853	28.513	10.246
%RSD		4.601	5.791	6.182	1.953	3.400	0.637	2.122	24.998	11.710
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	02:54:11	150.001	81.250	67.188	31.771	17.188	17.188	320.837	18.229	22.917
2	02:55:19	201.564	92.188	75.000	51.563	17.188	17.188	336.462	16.146	17.188
3	02:56:27	140.626	78.125	62.500	46.875	10.938	10.938	296.357	16.146	19.271
x		164.063	83.854	68.229	43.403	15.104	15.104	317.885	16.840	19.792
$\sigma$		32.813	7.384	6.315	10.343	3.608	3.608	20.215	1.203	2.900
%RSD		20.000	8.806	9.255	23.829	23.890	23.890	6.359	7.142	14.652
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	02:54:11	218.752	320.316	364.067	207.814	537.510	0.000	180418.060	98.438	60.938
2	02:55:19	165.626	315.628	276.565	179.689	467.195	3.125	183383.590	131.251	53.125
3	02:56:27	153.126	235.939	281.253	196.876	390.630	0.000	186880.030	118.750	71.875
x		179.168	290.628	307.295	194.793	465.112	1.042	183560.560	116.146	61.979
$\sigma$		34.846	47.420	49.222	14.178	73.462	1.804	3234.615	16.561	9.418
%RSD		19.449	16.316	16.018	7.278	15.794	173.205	1.762	14.258	15.196
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	02:54:11	0.000	0.000	42.188	17.188	148.438	395.318	34.375	104.688	396640.300
2	02:55:19	3.125	3.125	57.813	7.813	159.376	287.503	53.125	81.250	401523.930
3	02:56:27	4.688	4.688	64.063	10.938	167.188	260.940	53.125	103.125	408339.650
x		2.604	2.604	54.688	11.979	158.334	314.587	46.875	96.354	402167.960
$\sigma$		2.387	2.387	11.267	4.774	9.418	71.165	10.825	13.104	5876.203
%RSD		91.652	91.652	20.603	39.849	5.948	22.622	23.094	13.600	1.461
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	02:54:11	413503.800	168.751	384.380	203.126	162.501	409.381	389719.310	387.505	
2	02:55:19	419424.260	187.501	418.756	245.315	212.502	468.758	397176.780	406.256	
3	02:56:27	426811.730	198.439	467.195	200.001	165.626	465.633	402655.100	421.881	
x		419913.260	184.897	423.444	216.147	180.209	447.924	396517.060	405.214	
$\sigma$		6667.429	15.014	41.606	25.308	28.009	33.416	6493.084	17.212	
%RSD		1.588	8.120	9.826	11.709	15.543	7.460	1.638	4.248	

## PB59238BL PBW01 11/17/2011 03:00:55 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	03:02:03	10525.751	16.667	17.188	312.503	146729.370	3130.030	420.319	520.322	15143.960
2	03:03:11	10693.063	15.625	23.438	423.444	145635.450	2883.103	345.317	435.944	15095.471
3	03:04:19	10460.078	15.625	20.313	332.816	143834.530	2719.009	387.505	425.006	14942.185
x		10559.631	15.972	20.313	356.255	145399.780	2910.714	384.380	460.424	15060.539
σ		120.131	0.601	3.125	59.067	1461.739	206.897	37.599	52.161	105.326
%RSD		1.138	3.765	15.385	16.580	1.005	7.108	9.782	11.329	0.699
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	03:02:03	1078.166	1104.730	19241.074	181856.440	228216.260	34.375	598.450	80922.297	39.063
2	03:03:11	1193.800	1115.669	19477.331	182305.860	229746.750	40.625	615.638	82067.867	50.000
3	03:04:19	1228.178	1054.726	19740.192	182483.110	226843.090	59.375	610.951	81327.715	56.250
x		1166.715	1091.708	19486.199	182215.140	228268.700	44.792	608.346	81439.293	48.438
σ		78.588	32.491	249.677	323.034	1452.542	13.010	8.885	580.878	8.700
%RSD		6.736	2.976	1.281	0.177	0.636	29.047	1.461	0.713	17.961
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	03:02:03	1431.322	685.954	592.200	4936.790	371.880	76361.355	2789.335	79.688	95.313
2	03:03:11	1486.015	682.829	507.822	5069.649	360.942	75321.482	2881.541	59.375	81.250
3	03:04:19	1453.199	631.264	525.010	5119.667	346.879	74867.542	2804.963	70.313	73.438
x		1456.845	666.682	541.677	5042.036	359.900	75516.793	2825.279	69.792	83.334
σ		27.528	30.713	44.590	94.514	12.533	765.819	49.346	10.166	11.085
%RSD		1.890	4.607	8.232	1.875	3.482	1.014	1.747	14.567	13.302
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	03:02:03	196.876	67.188	59.375	44.792	17.188	17.188	315.628	23.438	20.313
2	03:03:11	120.313	73.438	59.375	36.979	17.188	17.188	285.940	16.667	17.188
3	03:04:19	140.626	57.813	75.000	29.688	3.125	3.125	286.461	18.750	11.979
x		152.605	66.146	64.583	37.153	12.500	12.500	296.010	19.618	16.493
σ		39.663	7.864	9.021	7.554	8.119	8.119	16.992	3.468	4.210
%RSD		25.990	11.890	13.968	20.331	64.952	64.952	5.740	17.677	25.525
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	03:02:03	110.938	189.064	212.502	118.750	335.941	0.000	183646.310	134.376	37.500
2	03:03:11	132.813	184.376	220.314	110.938	310.941	0.000	185860.610	117.188	28.125
3	03:04:19	114.063	139.063	189.064	84.375	289.065	0.000	186096.460	131.251	34.375
x		119.271	170.834	207.293	104.688	311.983	0.000	185201.120	127.605	33.333
σ		11.831	27.614	16.263	18.020	23.455	0.000	1351.665	9.155	4.774
%RSD		9.920	16.164	7.846	17.213	7.518	0.000	0.730	7.175	14.321
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	03:02:03	1.563	1.563	39.063	6.250	107.813	312.503	31.250	59.375	403249.650
2	03:03:11	1.563	1.563	14.063	3.125	117.188	200.001	28.125	50.000	405681.120
3	03:04:19	0.000	0.000	21.875	4.688	115.625	167.188	12.500	39.063	405280.940
x		1.042	1.042	25.000	4.688	113.542	226.564	23.958	49.479	404737.240
σ		0.902	0.902	12.790	1.563	5.023	76.212	10.045	10.166	1303.732
%RSD		86.603	86.603	51.158	33.333	4.424	33.638	41.929	20.547	0.322
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	03:02:03	422502.050	109.375	307.816	156.251	129.688	376.567	399006.410	201.564	
2	03:03:11	423047.530	75.000	220.314	131.251	126.563	337.504	400699.700	157.813	
3	03:04:19	422934.890	75.000	251.565	128.126	139.063	312.503	398334.930	146.876	
x		422828.160	86.459	259.898	138.542	131.771	342.192	399347.010	168.751	
σ		287.978	19.847	44.342	15.415	6.505	32.288	1218.624	28.938	
%RSD		0.068	22.955	17.061	11.127	4.937	9.436	0.305	17.148	

PB59234BS LCS01 11/17/2011 03:08:48 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	03:09:57	10749.355	87.500	84.375	382.818	448822.670	254727.510	36930.486	45118.010	29436.547
2	03:11:05	10553.897	91.146	59.375	381.255	449291.760	256402.390	37068.342	45777.917	30070.678
3	03:12:13	10775.938	90.625	71.875	389.068	450229.990	257140.480	37514.818	46067.909	29704.287
x		10693.063	89.757	71.875	384.380	449448.140	256090.120	37171.215	45654.612	29737.171
$\sigma$		121.252	1.972	12.500	4.134	716.575	1236.420	305.447	486.806	318.342
%RSD		1.134	2.197	17.391	1.076	0.159	0.483	0.822	1.066	1.071
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	03:09:57	1890.750	1121.919	19641.618	183325.030	635243.050	964.095	16445.398	81473.857	514.072
2	03:11:05	1937.631	1160.985	19921.693	186522.270	639608.050	935.968	16565.849	80449.325	601.575
3	03:12:13	2059.523	1195.363	20139.186	186452.620	641592.570	1042.226	16573.671	80755.734	509.384
x		1962.635	1159.422	19900.832	185433.310	638814.560	980.763	16528.306	80892.972	541.677
$\sigma$		87.121	36.747	249.439	1826.152	3248.280	55.055	71.907	525.873	51.926
%RSD		4.439	3.169	1.253	0.985	0.508	5.613	0.435	0.650	9.586
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	03:09:57	8880.885	3642.652	848.463	25807.665	2656.497	437609.270	12059.776	1970.448	492.196
2	03:11:05	9081.010	3720.797	867.214	26084.730	2611.176	443363.940	11854.917	1917.316	540.635
3	03:12:13	8815.219	3647.341	857.838	26224.047	2654.934	445823.090	12050.393	2087.653	515.634
x		8925.705	3670.263	857.838	26038.814	2640.869	442265.430	11988.362	1991.806	516.155
$\sigma$		138.448	43.826	9.376	211.955	25.727	4215.658	115.662	87.153	24.224
%RSD		1.551	1.194	1.093	0.814	0.974	0.953	0.965	4.376	4.693
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	03:09:57	2178.291	1173.486	779.709	323.441	100.000	100.000	545.323	109.896	22.917
2	03:11:05	2200.169	1190.675	743.769	358.859	71.875	71.875	532.822	128.126	12.500
3	03:12:13	2409.578	1101.605	860.963	362.505	76.563	76.563	564.594	119.792	17.708
x		2262.680	1155.255	794.814	348.268	82.813	82.813	547.580	119.271	17.708
$\sigma$		127.687	47.251	60.039	21.578	15.068	15.068	16.006	9.126	5.208
%RSD		5.643	4.090	7.554	6.196	18.196	18.196	2.923	7.651	29.412
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	03:09:57	1465.700	2579.920	2690.878	1589.151	3938.043	1.563	185062.850	184.376	1636.031
2	03:11:05	1382.879	2611.176	2687.753	1473.514	3939.606	1.563	183685.870	173.439	1609.466
3	03:12:13	1464.138	2633.055	2683.064	1539.145	4183.425	0.000	183307.620	146.876	1636.031
x		1437.572	2608.051	2687.232	1533.937	4020.358	1.042	184018.780	168.230	1627.176
$\sigma$		47.372	26.705	3.933	57.994	141.222	0.902	923.756	19.285	15.338
%RSD		3.295	1.024	0.146	3.781	3.513	86.603	0.502	11.464	0.943
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	03:09:57	31.250	31.250	1553.209	375.005	4486.642	3087.834	2729.948	4763.294	405234.330
2	03:11:05	35.938	35.938	1715.728	353.129	4608.556	2876.852	2683.064	5000.875	401719.950
3	03:12:13	29.688	29.688	1592.276	379.693	4369.418	2953.430	2645.557	4894.588	403458.550
x		32.292	32.292	1620.405	369.276	4488.205	2972.705	2686.190	4886.253	403470.940
$\sigma$		3.253	3.253	84.832	14.178	119.576	106.803	42.282	119.010	1757.224
%RSD		10.073	10.073	5.235	3.839	2.664	3.593	1.574	2.436	0.436
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	03:09:57	424022.680	2631.492	6537.433	2254.865	2036.083	5079.028	398752.590	11019.874	
2	03:11:05	418724.480	2617.427	6573.387	2156.413	1947.008	5157.181	393876.330	11098.059	
3	03:12:13	420408.820	2798.712	6629.663	2193.919	2050.147	5119.667	394891.280	11057.403	
x		421052.000	2682.544	6580.161	2201.732	2011.079	5118.625	395840.060	11058.445	
$\sigma$		2707.025	100.850	46.487	49.689	55.931	39.087	2572.865	39.103	
%RSD		0.643	3.759	0.706	2.257	2.781	0.764	0.650	0.354	

## PB59238BS LCS01 11/17/2011 03:16:42 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	03:17:50	10630.516	100.521	51.563	371.880	454356.030	259989.790	37767.044	45688.569	29993.954
2	03:18:58	10499.169	78.646	67.188	373.442	458468.710	262402.050	37640.147	46748.239	29986.125
3	03:20:06	10846.303	106.771	70.313	437.507	460160.900	264380.210	38244.875	46226.232	30247.613
x		10658.663	95.313	63.021	394.276	457661.880	262257.350	37884.022	46221.013	30075.898
σ		175.270	14.768	10.046	37.447	2985.360	2198.783	318.884	529.854	148.762
%RSD		1.644	15.495	15.940	9.498	0.652	0.838	0.842	1.146	0.495
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	03:17:50	1922.004	1148.484	20032.786	185379.410	644488.990	929.718	16608.086	80843.729	598.450
2	03:18:58	1993.889	1075.040	19799.649	187560.740	647296.100	1035.975	16532.999	81440.857	520.322
3	03:20:06	1990.764	1145.358	20112.586	186930.680	648320.720	1073.478	16393.776	81310.429	534.385
x		1968.886	1122.961	19981.674	186623.610	646701.940	1013.057	16511.620	81198.338	551.052
σ		40.631	41.530	162.609	1122.613	1983.763	74.570	108.743	313.948	41.646
%RSD		2.064	3.698	0.814	0.602	0.307	7.361	0.659	0.387	7.557
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	03:17:50	8885.575	3766.121	814.086	26191.175	2687.753	446000.380	11995.659	2018.893	523.447
2	03:18:58	9124.788	3658.281	751.582	26560.606	2620.553	447400.980	12213.031	1992.326	540.635
3	03:20:06	9021.598	3708.294	842.212	26582.522	2658.060	449157.970	12073.850	1953.259	560.949
x		9010.654	3710.899	802.627	26444.767	2655.455	447519.770	12094.180	1988.159	541.677
σ		119.982	53.967	46.389	219.891	33.676	1582.143	110.103	33.015	18.772
%RSD		1.332	1.454	5.780	0.832	1.268	0.354	0.910	1.661	3.466
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	03:17:50	2429.894	1081.291	806.273	334.379	110.938	110.938	565.636	112.500	13.021
2	03:18:58	2467.401	1125.044	770.333	339.587	70.313	70.313	600.013	120.313	14.063
3	03:20:06	2340.817	1142.233	795.335	328.129	84.375	84.375	564.594	118.750	16.146
x		2412.704	1116.190	790.647	334.032	88.542	88.542	576.748	117.188	14.410
σ		65.019	31.421	18.423	5.737	20.631	20.631	20.155	4.134	1.591
%RSD		2.695	2.815	2.330	1.718	23.300	23.300	3.495	3.528	11.042
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	03:17:50	1457.887	2458.024	2769.018	1576.650	4159.981	0.000	185246.460	140.626	1771.985
2	03:18:58	1489.140	2592.423	2670.562	1551.647	4256.884	0.000	182285.290	153.126	1711.040
3	03:20:06	1515.705	2558.042	2654.934	1371.941	4134.973	0.000	183864.720	134.376	1726.667
x		1487.578	2536.163	2698.171	1500.079	4183.946	0.000	183798.820	142.709	1736.564
σ		28.941	69.820	61.851	111.673	64.392	0.000	1481.682	9.547	31.655
%RSD		1.946	2.753	2.292	7.444	1.539	0.000	0.806	6.690	1.823
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	03:17:50	21.875	21.875	1625.092	382.818	4747.664	2984.687	2787.772	4827.378	403869.930
2	03:18:58	39.063	39.063	1720.416	351.567	4702.336	2915.923	2797.149	4949.295	402640.640
3	03:20:06	29.688	29.688	1715.728	306.253	4639.816	2854.973	2714.320	5014.943	401695.850
x		30.208	30.208	1687.079	346.879	4696.605	2918.527	2766.414	4930.538	402735.470
σ		8.606	8.606	53.733	38.497	54.152	64.896	45.357	95.179	1090.142
%RSD		28.487	28.487	3.185	11.098	1.153	2.224	1.640	1.930	0.271
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	03:17:50	419959.970	2731.511	6668.744	2218.922	2087.653	4943.043	397732.550	11271.632	
2	03:18:58	418352.900	2729.948	6431.135	2206.420	2186.105	5105.600	396312.650	11265.378	
3	03:20:06	419099.300	2715.883	6673.433	2237.675	2147.036	5122.793	394722.650	11299.780	
x		419137.390	2725.781	6591.104	2221.006	2140.265	5057.145	396255.950	11278.930	
σ		804.213	8.607	138.557	15.731	49.574	99.189	1505.752	18.325	
%RSD		0.192	0.316	2.102	0.708	2.316	1.961	0.380	0.162	

C4464-12 MH3BB0 11/17/2011 03:24:36 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	03:25:44	10553.897	14.063	96.875	714.080	11499736.000	5772709.600	853836.830	1046909.400	15941.702
2	03:26:52	10664.917	13.021	114.063	715.643	11657580.000	5867830.500	868317.020	1070006.700	15303.505
3	03:28:00	10608.625	13.542	126.563	768.771	11582129.000	5820377.200	859194.150	1052982.300	14676.285
x		10609.146	13.542	112.500	732.831	11579815.000	5820305.800	860449.330	1056632.800	15307.164
σ		55.512	0.521	14.905	31.134	78947.149	47560.457	7321.238	11973.541	632.717
%RSD		0.523	3.846	13.249	4.248	0.682	0.817	0.851	1.133	4.133
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	03:25:44	719942.070	1057.852	55692.723	903827.410	1047925.300	62746.874	1042905.300	78659.713	96.875
2	03:26:52	731695.340	1075.040	56914.712	932060.870	1057763.800	64173.503	1061309.700	79305.456	121.876
3	03:28:00	721453.010	1032.850	56404.883	926267.290	1050546.800	63013.669	1046904.400	80853.158	115.625
x		724363.470	1055.247	56337.439	920718.520	1052078.700	63311.349	1050373.100	79606.109	111.459
σ		6394.368	21.216	613.780	14912.200	5094.962	758.470	9680.112	1127.206	13.011
%RSD		0.883	2.010	1.089	1.620	0.484	1.198	0.922	1.416	11.673
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	03:25:44	47522.663	1071.915	15886.954	18501.035	7980.353	328518.800	16365.619	220.314	387.505
2	03:26:52	58265.453	1228.178	19748.015	18832.718	8164.833	331847.550	16260.812	198.439	296.878
3	03:28:00	65612.831	1275.057	21821.341	18397.777	8060.086	325956.410	16137.234	209.377	312.503
x		57133.649	1191.717	19152.103	18577.176	8068.424	328774.250	16254.555	209.377	332.296
σ		9098.037	106.366	3011.739	227.248	92.522	2953.865	114.321	10.938	48.447
%RSD		15.924	8.925	15.725	1.223	1.147	0.898	0.703	5.224	14.580
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	03:25:44	823.461	418.756	1231.303	659.390	178.126	178.126	276.044	16.146	18.750
2	03:26:52	835.962	448.445	1223.490	794.293	206.251	206.251	299.482	25.000	20.313
3	03:28:00	821.899	425.006	1090.667	864.089	225.002	225.002	262.502	16.146	20.313
x		827.107	430.736	1181.820	772.591	203.126	203.126	279.343	19.097	19.792
σ		7.708	15.651	79.038	104.061	23.594	23.594	18.709	5.112	0.902
%RSD		0.932	3.634	6.688	13.469	11.615	11.615	6.698	26.768	4.558
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	03:25:44	106.250	143.751	137.501	82.813	220.314	7.813	173639.520	109.375	70.313
2	03:26:52	89.063	103.125	117.188	73.438	198.439	0.000	175722.580	98.438	76.563
3	03:28:00	90.625	81.250	110.938	81.250	189.064	3.125	177926.160	101.563	51.563
x		95.313	109.375	121.876	79.167	202.606	3.646	175762.750	103.125	66.146
σ		9.504	31.716	13.888	5.023	16.036	3.932	2143.602	5.634	13.010
%RSD		9.972	28.997	11.395	6.345	7.915	107.855	1.220	5.463	19.669
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	03:25:44	0.000	0.000	81.250	10.938	187.501	259.377	19502.365	33855.695	391562.440
2	03:26:52	1.563	1.563	70.313	9.375	168.751	201.564	19492.978	34620.023	395589.900
3	03:28:00	0.000	0.000	62.500	1.563	157.813	154.688	19557.128	33630.163	399385.530
x		0.521	0.521	71.354	7.292	171.355	205.210	19517.490	34035.294	395512.620
σ		0.902	0.902	9.418	5.023	15.014	52.440	34.646	518.794	3912.118
%RSD		173.205	173.205	13.199	68.883	8.762	25.554	0.178	1.524	0.989
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	03:25:44	410153.000	339.067	873.464	915.654	809.398	1986.076	375489.470	8544.742	
2	03:26:52	414721.150	225.002	514.072	935.968	793.772	1812.615	380935.530	8466.571	
3	03:28:00	415156.970	135.938	357.817	710.955	832.837	1714.165	387260.020	8205.481	
x		413343.710	233.335	581.784	854.193	812.002	1837.619	381228.340	8405.598	
σ		2771.812	101.820	264.408	124.462	19.662	137.669	5890.734	177.659	
%RSD		0.671	43.637	45.448	14.571	2.421	7.492	1.545	2.114	

C4464-13 MH3BB1 11/17/2011 03:32:30 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	03:33:39	10219.279	15.104	132.813	857.838	7342085.100	5486040.000	803837.160	981483.610	15345.738
2	03:34:47	10619.571	9.896	128.126	756.270	7226961.800	5421636.800	802322.670	983085.180	15269.093
3	03:35:55	10658.662	14.583	126.563	757.833	7259417.300	5433840.300	792984.840	980910.230	14901.518
x		10499.171	13.194	129.167	790.647	7276154.700	5447172.400	799714.890	981826.340	15172.116
σ		243.180	2.869	3.253	58.195	59358.623	34208.916	5877.384	1127.253	237.458
%RSD		2.316	21.740	2.518	7.360	0.816	0.628	0.735	0.115	1.565
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	03:33:39	715321.550	1260.993	47809.555	576521.870	992539.310	60661.333	1005502.000	78458.611	112.500
2	03:34:47	717544.600	1254.743	47362.758	578801.970	997045.240	60000.739	998588.250	79032.072	109.375
3	03:35:55	707837.230	1267.244	47878.536	576225.900	988011.350	60302.004	995661.360	79173.477	106.250
x		713567.800	1260.993	47683.616	577183.250	992531.970	60321.358	999917.190	78888.053	109.375
σ		5085.766	6.251	280.004	1409.644	4516.951	330.722	5053.106	378.568	3.125
%RSD		0.713	0.496	0.587	0.244	0.455	0.548	0.505	0.480	2.857
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	03:33:39	42953.541	1228.178	14299.340	5419.778	3733.300	105891.000	10660.226	604.700	339.067
2	03:34:47	45923.696	1178.174	15117.369	5410.399	3694.228	105939.800	10422.551	576.574	314.066
3	03:35:55	47080.578	1137.545	15463.052	5371.322	3755.181	103583.550	10317.787	510.947	262.502
x		45319.272	1181.299	14959.921	5400.500	3727.570	105138.120	10466.855	564.074	305.212
σ		2128.874	45.397	597.619	25.700	30.878	1346.514	175.466	48.111	39.042
%RSD		4.698	3.843	3.995	0.476	0.828	1.281	1.676	8.529	12.792
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	03:33:39	796.897	417.194	2025.144	588.033	162.501	162.501	272.919	17.188	16.146
2	03:34:47	851.588	434.382	2056.398	641.160	167.188	167.188	269.273	17.708	21.354
3	03:35:55	803.148	412.506	2011.079	614.597	171.876	171.876	250.002	16.146	12.500
x		817.211	421.360	2030.874	614.597	167.188	167.188	264.065	17.014	16.667
σ		29.935	11.518	23.196	26.564	4.688	4.688	12.314	0.796	4.450
%RSD		3.663	2.733	1.142	4.322	2.804	2.804	4.663	4.676	26.700
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	03:33:39	96.875	139.063	121.876	76.563	195.314	0.000	174455.630	104.688	39.063
2	03:34:47	60.938	109.375	118.750	64.063	196.876	0.000	175599.200	104.688	42.188
3	03:35:55	78.125	101.563	85.938	45.313	151.563	0.000	173710.690	157.813	34.375
x		78.646	116.667	108.855	61.979	181.251	0.000	174588.510	122.396	38.542
σ		17.975	19.785	19.908	15.729	25.722	0.000	951.238	30.672	3.932
%RSD		22.855	16.958	18.289	25.378	14.192	0.000	0.545	25.060	10.202
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	03:33:39	1.563	1.563	39.063	3.125	131.251	295.316	46180.773	81586.999	391116.090
2	03:34:47	0.000	0.000	43.750	9.375	118.750	151.563	45047.475	81891.861	397690.790
3	03:35:55	3.125	3.125	39.063	3.125	107.813	131.251	46130.611	80370.759	395617.200
x		1.563	1.563	40.625	5.208	119.271	192.710	45786.286	81283.207	394808.020
σ		1.563	1.563	2.706	3.608	11.728	89.438	640.321	804.770	3361.212
%RSD		100.000	100.000	6.662	69.282	9.833	46.411	1.398	0.990	0.851
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	03:33:39	407862.240	103.125	271.878	821.899	748.457	1732.918	380341.900	10017.574	
2	03:34:47	413072.850	90.625	220.314	862.526	723.456	1809.490	384873.370	10406.914	
3	03:35:55	411591.950	76.563	165.626	767.208	737.519	1748.545	380069.160	9897.177	
x		410842.350	90.104	219.273	817.211	736.477	1763.651	381761.470	10107.222	
σ		2684.967	13.289	53.133	47.832	12.533	40.459	2698.427	266.431	
%RSD		0.654	14.748	24.232	5.853	1.702	2.294	0.707	2.636	

C4464-14 MH3BB2 11/17/2011 03:40:25 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	03:41:33	10485.096	13.021	131.251	796.897	10117363.000	5621199.900	826525.310	1012988.500	14984.417
2	03:42:41	10214.588	13.542	131.251	742.207	10142189.000	5662203.200	827665.100	1016382.900	14712.259
3	03:43:49	10150.480	11.979	139.063	779.709	10167526.000	5662642.500	831569.860	1011934.800	14318.109
x		10283.388	12.847	133.855	772.938	10142359.000	5648681.800	828586.760	1013768.700	14671.595
σ		177.601	0.796	4.511	27.967	25081.946	23801.099	2645.553	2324.467	335.010
%RSD		1.727	6.193	3.370	3.618	0.247	0.421	0.319	0.229	2.283
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	03:41:33	715633.480	1170.360	50631.754	562046.180	1007479.600	61100.699	1012517.700	77999.859	106.250
2	03:42:41	717455.940	1065.665	51632.200	567603.300	1010588.000	61707.988	1019154.700	77729.643	96.875
3	03:43:49	717304.880	1095.355	51906.629	575734.810	1005284.300	61478.879	1021727.500	76534.151	96.875
x		716798.100	1110.460	51390.194	568461.430	1007784.000	61429.189	1017800.000	77421.218	100.000
σ		1011.414	53.958	671.008	6884.543	2664.938	306.679	4752.006	780.012	5.413
%RSD		0.141	4.859	1.306	1.211	0.264	0.499	0.467	1.007	5.413
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	03:41:33	43958.152	1065.665	14471.389	34547.974	11575.000	618926.290	23002.880	325.004	289.065
2	03:42:41	47182.476	982.846	15708.632	35177.633	11723.558	621847.570	23132.777	335.941	284.378
3	03:43:49	48852.136	1037.538	16267.069	35265.349	11798.620	622878.560	23173.468	351.567	279.690
x		46664.255	1028.683	15482.363	34996.985	11699.060	621217.470	23103.041	337.504	284.378
σ		2487.807	42.113	918.975	391.321	113.805	2050.094	89.097	13.350	4.688
%RSD		5.331	4.094	5.936	1.118	0.973	0.330	0.386	3.956	1.648
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	03:41:33	835.962	431.257	2270.493	609.388	146.876	146.876	281.253	16.667	20.833
2	03:42:41	790.647	425.006	2236.113	614.076	192.189	192.189	295.836	19.271	18.750
3	03:43:49	889.090	384.380	2314.250	681.787	154.688	154.688	263.023	18.229	17.188
x		838.566	413.548	2273.618	635.084	164.584	164.584	280.037	18.056	18.924
σ		49.273	25.452	39.162	40.514	24.223	24.223	16.440	1.311	1.829
%RSD		5.876	6.155	1.722	6.379	14.718	14.718	5.871	7.259	9.666
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	03:41:33	68.750	115.625	118.750	68.750	142.188	0.000	173003.760	121.876	32.813
2	03:42:41	56.250	100.000	90.625	56.250	160.938	1.563	170725.020	115.625	35.938
3	03:43:49	75.000	104.688	84.375	39.063	125.001	0.000	169469.580	120.313	34.375
x		66.667	106.771	97.917	54.688	142.709	0.521	171066.120	119.271	34.375
σ		9.547	8.018	18.311	14.905	17.975	0.902	1791.607	3.253	1.563
%RSD		14.321	7.510	18.700	27.255	12.595	173.205	1.047	2.727	4.545
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	03:41:33	1.563	1.563	43.750	15.625	156.251	221.877	25057.895	44859.385	393171.360
2	03:42:41	1.563	1.563	34.375	4.688	151.563	173.439	25403.817	44332.745	386459.070
3	03:43:49	1.563	1.563	56.250	6.250	112.500	162.501	24981.198	44991.048	386879.600
x		1.563	1.563	44.792	8.854	140.105	185.939	25147.637	44727.726	388836.680
σ		0.000	0.000	10.975	5.916	24.021	31.600	225.149	348.341	3759.830
%RSD		0.000	0.000	24.502	66.811	17.145	16.995	0.895	0.779	0.967
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	03:41:33	409169.130	84.375	232.814	710.955	643.765	1725.104	382057.080	8991.891	
2	03:42:41	405255.220	81.250	167.188	668.766	618.763	1536.020	378245.130	9109.153	
3	03:43:49	405139.510	64.063	162.501	684.391	701.580	1520.393	375696.370	9024.725	
x		406521.290	76.563	187.501	688.037	654.703	1593.839	378666.190	9041.923	
σ		2293.832	10.938	39.312	21.330	42.478	113.947	3201.192	60.493	
%RSD		0.564	14.286	20.966	3.100	6.488	7.149	0.845	0.669	

## C4464-12X25 MH3BBO 11/17/2011 03:48:19 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	03:49:27	10619.571	12.500	12.500	423.444	604159.180	243174.090	34580.866	42696.522	13944.302
2	03:50:35	10514.806	13.021	21.875	410.943	607480.030	242737.060	34665.446	42784.284	13919.278
3	03:51:43	10372.514	9.375	20.313	437.507	607354.550	241756.580	34626.288	42093.173	13708.136
x		10502.297	11.632	18.229	423.965	606331.250	242555.910	34624.200	42524.660	13857.239
σ		124.002	1.972	5.023	13.289	1882.115	725.908	42.328	376.246	129.731
%RSD		1.181	16.952	27.553	3.135	0.310	0.299	0.122	0.885	0.936
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	03:49:27	29533.622	987.534	21802.562	218121.330	257006.850	2461.150	42347.047	77564.687	40.625
2	03:50:35	29045.122	1075.040	21616.342	218841.590	256073.120	2614.302	42394.061	76937.874	50.000
3	03:51:43	28835.322	1185.987	21796.303	217112.380	258373.360	2625.241	41905.121	78585.870	37.500
x		29138.022	1082.854	21738.402	218025.100	257151.110	2566.898	42215.410	77696.144	42.708
σ		358.299	99.457	105.754	868.612	1156.885	91.744	269.744	831.826	6.505
%RSD		1.230	9.185	0.486	0.398	0.450	3.574	0.639	1.071	15.232
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	03:49:27	12322.500	690.642	3945.857	5147.802	631.264	85443.823	3078.457	46.875	67.188
2	03:50:35	11404.450	720.331	3789.565	5250.965	650.015	85259.917	3111.276	48.438	71.875
3	03:51:43	10592.988	684.391	3530.124	4927.412	648.452	84833.955	3244.118	40.625	67.188
x		11440.013	698.455	3755.182	5108.726	643.244	85179.232	3144.617	45.313	68.750
σ		865.301	19.201	209.989	165.278	10.404	312.838	87.719	4.134	2.706
%RSD		7.564	2.749	5.592	3.235	1.617	0.367	2.790	9.123	3.936
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	03:49:27	131.251	62.500	123.438	147.397	46.875	46.875	269.273	15.625	21.354
2	03:50:35	148.438	75.000	137.501	144.272	29.688	29.688	295.836	13.021	16.667
3	03:51:43	146.876	71.875	134.376	137.501	32.813	32.813	296.357	17.708	18.750
x		142.188	69.792	131.771	143.056	36.458	36.458	287.156	15.451	18.924
σ		9.504	6.505	7.384	5.059	9.155	9.155	15.489	2.349	2.349
%RSD		6.684	9.321	5.604	3.536	25.112	25.112	5.394	15.200	12.411
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	03:49:27	34.375	70.313	60.938	64.063	93.750	0.000	178226.750	120.313	9.375
2	03:50:35	45.313	78.125	78.125	40.625	93.750	1.563	176541.960	93.750	3.125
3	03:51:43	48.438	57.813	60.938	29.688	85.938	1.563	180486.100	121.876	3.125
x		42.708	68.750	66.667	44.792	91.146	1.042	178418.270	111.980	5.208
σ		7.384	10.246	9.923	17.562	4.511	0.902	1979.033	15.806	3.608
%RSD		17.290	14.903	14.885	39.209	4.949	86.603	1.109	14.115	69.282
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	03:49:27	0.000	0.000	10.938	6.250	64.063	142.188	800.022	1442.260	392689.630
2	03:50:35	1.563	1.563	0.000	0.000	50.000	95.313	778.146	1390.693	390774.100
3	03:51:43	0.000	0.000	4.688	0.000	46.875	67.188	773.458	1479.764	396635.490
x		0.521	0.521	5.208	2.083	53.646	101.563	783.876	1437.572	393366.410
σ		0.902	0.902	5.487	3.608	9.155	37.889	14.179	44.720	2988.724
%RSD		173.205	173.205	105.357	173.205	17.066	37.306	1.809	3.111	0.760
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	03:49:27	410228.560	35.938	90.625	157.813	145.313	340.629	389242.510	385.943	
2	03:50:35	408429.670	26.563	71.875	162.501	126.563	331.254	386834.660	385.943	
3	03:51:43	414806.380	40.625	78.125	126.563	123.438	310.941	392834.150	360.942	
x		411154.870	34.375	80.209	148.959	131.771	327.608	389637.110	377.609	
σ		3287.728	7.160	9.547	19.537	11.831	15.176	3019.147	14.434	
%RSD		0.800	20.830	11.903	13.115	8.979	4.632	0.775	3.823	

## C4464-13X25 MH3BB1 11/17/2011 03:56:14 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	03:57:22	10474.151	14.583	21.875	395.318	434955.030	229943.630	33114.899	39744.272	14268.059
2	03:58:30	10394.405	13.021	23.438	426.569	436617.090	227884.460	32688.920	39399.569	14601.208
3	03:59:39	10610.189	15.625	12.500	404.693	433310.870	226243.060	31974.806	39689.432	14322.801
x		10492.915	14.410	19.271	408.860	434961.000	228023.720	32592.875	39611.091	14397.356
σ		109.109	1.311	5.916	16.037	1653.121	1854.212	576.083	185.224	178.650
%RSD		1.040	9.096	30.697	3.922	0.380	0.813	1.768	0.468	1.241
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	03:57:22	28982.495	1032.850	21406.652	200636.600	256594.860	2470.526	41679.463	78832.536	64.063
2	03:58:30	29580.594	1100.042	21107.770	200991.540	258147.460	2542.414	41681.030	78501.031	39.063
3	03:59:39	28819.666	1103.168	21200.094	201026.400	257778.380	2503.344	40844.243	80281.195	45.313
x		29127.585	1078.687	21238.172	200884.850	257506.900	2505.428	41401.578	79204.921	49.479
σ		400.676	39.727	153.036	215.692	811.121	35.989	482.667	946.704	13.010
%RSD		1.376	3.683	0.721	0.107	0.315	1.436	1.166	1.195	26.295
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	03:57:22	7373.778	725.018	2426.769	4705.462	482.821	78680.137	3156.599	84.375	73.438
2	03:58:30	7000.152	696.892	2398.639	4519.465	443.757	78400.481	2997.189	92.188	93.750
3	03:59:39	6693.755	634.389	2458.024	4764.857	479.696	79118.486	3067.517	76.563	78.125
x		7022.562	685.433	2427.811	4663.261	468.758	78733.035	3073.768	84.375	81.771
σ		340.565	46.389	29.706	128.024	21.708	361.913	79.888	7.813	10.636
%RSD		4.850	6.768	1.224	2.745	4.631	0.460	2.599	9.259	13.007
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	03:57:22	145.313	60.938	128.126	105.209	40.625	40.625	303.128	11.458	12.500
2	03:58:30	139.063	89.063	126.563	94.792	28.125	28.125	286.461	20.833	17.188
3	03:59:39	120.313	59.375	162.501	91.146	20.313	20.313	293.232	9.896	17.188
x		134.896	69.792	139.063	97.049	29.688	29.688	294.274	14.063	15.625
σ		13.011	16.707	20.313	7.298	10.246	10.246	8.382	5.916	2.706
%RSD		9.645	23.939	14.607	7.520	34.513	34.513	2.848	42.066	17.321
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	03:57:22	64.063	67.188	75.000	45.313	114.063	0.000	180530.410	151.563	7.813
2	03:58:30	45.313	68.750	59.375	32.813	93.750	1.563	180365.850	131.251	14.063
3	03:59:39	46.875	42.188	65.625	29.688	84.375	0.000	183562.430	137.501	14.063
x		52.083	59.375	66.667	35.938	97.396	0.521	181486.230	140.105	11.979
σ		10.404	14.905	7.864	8.268	15.176	0.902	1799.924	10.404	3.608
%RSD		19.975	25.104	11.797	23.007	15.582	173.205	0.992	7.426	30.123
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	03:57:22	1.563	1.563	20.313	7.813	64.063	162.501	1743.856	3320.698	400855.540
2	03:58:30	1.563	1.563	9.375	3.125	51.563	103.125	1926.692	3214.424	405152.370
3	03:59:39	1.563	1.563	18.750	6.250	43.750	60.938	1829.805	3280.064	404213.830
x		1.563	1.563	16.146	5.729	53.125	108.855	1833.451	3271.729	403407.250
σ		0.000	0.000	5.916	2.387	10.246	51.023	91.473	53.625	2259.116
%RSD		0.000	0.000	36.638	41.660	19.287	46.873	4.989	1.639	0.560
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	03:57:22	417016.220	48.438	107.813	165.626	139.063	339.067	396315.860	487.508	
2	03:58:30	418824.220	45.313	131.251	178.126	164.063	364.067	396397.770	501.571	
3	03:59:39	425966.750	60.938	142.188	176.564	134.376	373.442	402192.340	451.570	
x		420602.400	51.563	127.084	173.439	145.834	358.859	398301.990	480.216	
σ		4732.807	8.268	17.562	6.811	15.960	17.770	3369.390	25.786	
%RSD		1.125	16.035	13.819	3.927	10.944	4.952	0.846	5.370	

## C4464-14X25 MH3BB2

11/17/2011 04:04:10 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	04:05:18	10585.170	13.021	18.750	445.319	557780.660	238523.220	34519.781	41289.270	14921.852
2	04:06:26	10521.060	9.896	14.063	412.506	569875.500	245031.990	35049.193	42348.614	15029.777
3	04:07:34	10521.060	12.500	15.625	382.818	564236.280	240577.550	34403.877	41895.719	15517.798
x		10542.430	11.806	16.146	413.548	563964.150	241377.590	34657.617	41844.534	15156.476
$\sigma$		37.014	1.674	2.387	31.264	6052.011	3327.323	344.031	531.524	317.534
%RSD		0.351	14.182	14.783	7.560	1.073	1.378	0.993	1.270	2.095
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	04:05:18	29358.261	1146.921	21319.021	198377.250	257395.000	2523.660	42364.285	78119.259	42.188
2	04:06:26	30826.975	1121.919	21691.456	200211.960	257035.490	2678.376	43574.166	78309.358	64.063
3	04:07:34	30551.384	1056.289	21358.142	199584.520	259067.000	2590.860	42517.865	78644.002	50.000
x		30245.540	1108.376	21456.206	199391.240	257832.500	2597.632	42818.772	78357.540	52.083
$\sigma$		780.664	46.809	204.669	932.498	1084.122	77.580	658.682	265.668	11.085
%RSD		2.581	4.223	0.954	0.468	0.420	2.987	1.538	0.339	21.284
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	04:05:18	5755.847	645.327	1893.876	6288.884	812.523	100993.230	3567.633	89.063	70.313
2	04:06:26	5549.515	681.266	1968.886	6148.198	942.219	103273.510	3847.393	60.938	81.250
3	04:07:34	5435.409	668.766	1859.496	6224.793	985.972	106094.060	3647.341	75.000	62.500
x		5580.257	665.120	1907.419	6220.625	913.571	103453.600	3687.456	75.000	71.354
$\sigma$		162.416	18.245	55.938	70.436	90.203	2555.181	144.130	14.063	9.418
%RSD		2.911	2.743	2.933	1.132	9.874	2.470	3.909	18.750	13.199
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	04:05:18	121.876	71.875	167.188	92.188	29.688	29.688	256.773	15.625	14.063
2	04:06:26	148.438	100.000	190.626	85.938	28.125	28.125	282.294	19.271	15.625
3	04:07:34	173.439	85.938	165.626	81.250	23.438	23.438	285.940	16.667	14.063
x		147.917	85.938	174.480	86.459	27.083	27.083	275.003	17.188	14.583
$\sigma$		25.785	14.063	14.005	5.487	3.253	3.253	15.892	1.878	0.902
%RSD		17.432	16.364	8.027	6.347	12.010	12.010	5.779	10.926	6.186
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	04:05:18	45.313	82.813	67.188	57.813	104.688	0.000	180698.130	112.500	29.688
2	04:06:26	57.813	45.313	67.188	21.875	104.688	0.000	179498.780	168.751	37.500
3	04:07:34	28.125	54.688	67.188	43.750	85.938	0.000	181397.540	126.563	28.125
x		43.750	60.938	67.188	41.146	98.438	0.000	180531.480	135.938	31.771
$\sigma$		14.905	19.516	0.000	18.110	10.825	0.000	960.286	29.274	5.023
%RSD		34.069	32.026	0.000	44.014	10.997	0.000	0.532	21.535	15.809
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	04:05:18	1.563	1.563	14.063	9.375	67.188	168.751	1148.484	1871.998	398518.050
2	04:06:26	0.000	0.000	32.813	0.000	56.250	92.188	1037.538	1878.249	393494.130
3	04:07:34	1.563	1.563	28.125	4.688	71.875	101.563	1095.355	1879.811	401053.160
x		1.042	1.042	25.000	4.688	65.104	120.834	1093.792	1876.686	397688.450
$\sigma$		0.902	0.902	9.758	4.688	8.018	41.761	55.489	4.135	3847.196
%RSD		86.603	86.603	39.031	100.000	12.316	34.561	5.073	0.220	0.967
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	04:05:18	418738.960	68.750	187.501	170.314	146.876	406.256	397767.890	496.884	
2	04:06:26	415980.420	62.500	179.689	193.751	160.938	434.382	390014.710	498.446	
3	04:07:34	422415.160	87.500	225.002	225.002	193.751	421.881	401069.230	518.759	
x		419044.850	72.917	197.397	196.356	167.188	420.840	396283.940	504.696	
$\sigma$		3228.259	13.010	24.223	27.437	24.055	14.092	5674.698	12.204	
%RSD		0.770	17.843	12.271	13.973	14.388	3.349	1.432	2.418	

CCV45 11/17/2011 04:12:04 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	04:13:12	10327.169	17313.610	2733.074	467.195	14440910.000	11693398.000	1711992.300	2058194.400	3089841.000
2	04:14:20	9823.689	17673.947	2825.279	482.821	14745310.000	11922543.000	1729941.600	2099698.900	3160633.000
3	04:15:29	10233.351	17526.369	2833.093	490.633	14765377.000	11886393.000	1748690.400	2095500.400	3148885.700
x		10128.070	17504.642	2797.149	480.216	14650532.000	11834111.000	1730208.100	2084464.600	3133119.900
$\sigma$		267.743	181.148	55.628	11.934	181815.200	123194.560	18350.487	22847.255	37938.050
%RSD		2.644	1.035	1.989	2.485	1.241	1.041	1.061	1.096	1.211
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	04:13:12	37286.095	181600.090	35227.756	177834.410	9798463.300	44752.801	738271.030	77186.082	24175.125
2	04:14:20	38160.274	184591.180	35949.864	177578.120	10031508.000	45953.479	759698.650	75437.718	24599.286
3	04:15:29	37837.543	185575.690	35558.261	180096.860	9961768.300	45335.886	757181.070	76031.478	24757.371
x		37761.304	183922.320	35578.627	178503.130	9930579.800	45347.389	751716.920	76218.426	24510.594
$\sigma$		442.048	2070.480	361.485	1386.147	119611.790	600.422	11712.320	889.048	301.085
%RSD		1.171	1.126	1.016	0.777	1.204	1.324	1.558	1.166	1.228
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	04:13:12	368232.310	336403.830	41240.692	1238553.500	931579.370	20461280.000	520663.680	426258.060	95187.948
2	04:14:20	377579.420	345053.380	42343.912	1271556.900	960805.870	20948784.000	533251.400	437609.270	97061.428
3	04:15:29	376809.490	345333.460	41623.049	1276146.600	961650.590	20925536.000	535300.950	439706.590	97415.388
x		374207.080	342263.560	41735.884	1262085.700	951345.280	20778533.000	529738.680	434524.640	96554.921
$\sigma$		5188.596	5076.601	560.199	20508.248	17122.984	274995.390	7925.711	7235.462	1196.990
%RSD		1.387	1.483	1.342	1.625	1.800	1.323	1.496	1.665	1.240
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	04:13:12	468159.910	226976.430	147057.720	67861.843	3842.704	3842.704	12275.584	5024.842	15.625
2	04:14:20	482891.420	234189.900	151751.740	69759.492	3895.844	3895.844	12737.447	5075.902	15.625
3	04:15:29	480406.590	230997.940	152077.050	69519.263	3830.201	3830.201	12583.143	5247.839	16.146
x		477152.640	230721.420	150295.500	69046.866	3856.250	3856.250	12532.058	5116.194	15.799
$\sigma$		7886.413	3614.678	2808.716	1033.265	34.855	34.855	235.131	116.831	0.301
%RSD		1.653	1.567	1.869	1.496	0.904	0.904	1.876	2.284	1.903
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	04:13:12	65386.798	115348.180	123534.960	72106.519	187985.010	1.563	174202.570	6995.462	353149.210
2	04:14:20	67589.201	119549.700	127369.980	74597.385	193962.560	0.000	172184.570	7134.594	361300.850
3	04:15:29	67995.811	119114.840	126274.380	73917.301	192594.230	0.000	170489.420	7092.385	358522.780
x		66990.603	118004.240	125726.440	73540.402	191513.930	0.521	172292.190	7074.147	357657.610
$\sigma$		1403.736	2310.468	1975.354	1287.495	3131.784	0.902	1858.910	71.336	4144.116
%RSD		2.095	1.958	1.571	1.751	1.635	173.205	1.079	1.008	1.159
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	04:13:12	5296.294	5296.294	342404.840	78997.506	220229.870	327466.930	326164.190	580073.900	399681.130
2	04:14:20	5380.701	5380.701	353823.400	81487.999	226687.520	333801.660	333828.850	593776.230	387682.180
3	04:15:29	5355.691	5355.691	350382.320	81162.718	227051.040	334425.370	334633.280	593789.250	393375.300
x		5344.229	5344.229	348870.190	80549.408	224656.140	331897.990	331542.110	589213.130	393579.540
$\sigma$		43.355	43.355	5857.538	1353.791	3837.572	3850.060	4674.746	7914.802	6002.083
%RSD		0.811	0.811	1.679	1.681	1.708	1.160	1.410	1.343	1.525
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	04:13:12	415864.620	593940.670	1439189.700	474343.320	446266.300	1060593.700	384277.970	2569734.500	
2	04:14:20	406910.670	607128.030	1482557.700	489417.340	459375.280	1094765.500	378598.040	2647756.400	
3	04:15:29	413691.940	606635.900	1470788.800	485630.400	456776.730	1083724.200	379626.360	2637866.700	
x		412155.740	602568.200	1464178.700	483130.350	454139.430	1079694.500	380834.120	2618452.500	
$\sigma$		4670.463	7475.710	22426.926	7841.821	6941.021	17438.653	3026.450	42479.850	
%RSD		1.133	1.241	1.532	1.623	1.528	1.615	0.795	1.622	

CCB45 11/17/2011 04:19:57 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	04:21:05	10464.769	26.042	46.875	370.317	152069.150	8255.510	1176.611	1270.369	17143.092
2	04:22:13	10944.816	19.792	28.125	337.504	148396.460	5868.393	804.710	1012.536	16356.233
3	04:23:21	10238.042	18.229	26.563	339.067	149923.210	6140.382	817.211	1001.598	16162.262
x		10549.209	21.354	33.854	348.963	150129.610	6754.761	932.844	1094.834	16553.863
σ		360.874	4.134	11.303	18.510	1845.027	1306.782	211.201	152.116	519.423
%RSD		3.421	19.359	33.389	5.304	1.229	19.346	22.641	13.894	3.138
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	04:21:05	1256.305	1153.172	19735.498	183581.420	230526.350	48.438	1003.160	79827.099	64.063
2	04:22:13	1184.424	1165.673	19655.700	184929.890	227738.410	48.438	939.093	79647.978	54.688
3	04:23:21	1131.295	1189.112	19895.094	185582.020	229741.990	62.500	846.900	79687.259	50.000
x		1190.675	1169.319	19762.097	184697.780	229335.580	53.125	929.718	79720.779	56.250
σ		62.739	18.246	121.893	1020.299	1437.713	8.119	78.551	94.147	7.160
%RSD		5.269	1.560	0.617	0.552	0.627	15.283	8.449	0.118	12.729
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	04:21:05	2719.009	854.713	960.970	5912.161	796.897	90723.099	3316.010	279.690	121.876
2	04:22:13	2803.400	801.585	956.282	5435.409	609.388	85168.751	3219.113	196.876	129.688
3	04:23:21	2598.674	839.087	970.345	5519.816	592.200	84349.851	3144.096	196.876	100.000
x		2707.028	831.795	962.532	5622.462	666.162	86747.234	3226.406	224.481	117.188
σ		102.888	27.304	7.161	254.411	113.546	3467.460	86.189	47.813	15.389
%RSD		3.801	3.283	0.744	4.525	17.045	3.997	2.671	21.299	13.132
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	04:21:05	373.442	140.626	126.563	84.375	10.938	10.938	297.920	31.771	14.583
2	04:22:13	232.814	132.813	100.000	61.979	23.438	23.438	268.232	15.104	11.458
3	04:23:21	239.065	115.625	98.438	70.834	18.750	18.750	274.482	18.229	14.063
x		281.774	129.688	108.334	72.396	17.708	17.708	280.211	21.701	13.368
σ		79.449	12.790	15.806	11.279	6.315	6.315	15.651	8.859	1.674
%RSD		28.196	9.862	14.590	15.580	35.660	35.660	5.586	40.824	12.524
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	04:21:05	342.192	543.760	631.264	317.191	879.715	0.000	184474.060	112.500	201.564
2	04:22:13	257.815	456.257	401.568	284.378	668.766	1.563	184016.650	128.126	167.188
3	04:23:21	196.876	343.754	401.568	260.940	560.949	0.000	180642.750	153.126	129.688
x		265.628	447.924	478.133	287.503	703.143	0.521	183044.490	131.251	166.147
σ		72.972	100.263	132.615	28.255	162.140	0.902	2092.501	20.492	35.949
%RSD		27.472	22.384	27.736	9.828	23.059	173.205	1.143	15.613	21.637
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	04:21:05	3.125	3.125	225.002	43.750	500.009	1056.289	279.690	443.757	408437.710
2	04:22:13	4.688	4.688	139.063	29.688	356.254	725.018	160.938	292.190	406613.320
3	04:23:21	1.563	1.563	129.688	20.313	256.252	581.262	154.688	237.502	402092.720
x		3.125	3.125	164.584	31.250	370.839	787.523	198.439	324.483	405714.580
σ		1.563	1.563	52.533	11.797	122.531	243.604	70.435	106.852	3266.576
%RSD		50.000	50.000	31.918	37.749	33.042	30.933	35.495	32.930	0.805
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	04:21:05	429601.320	496.884	1095.355	362.505	367.192	907.841	407606.660	1545.396	
2	04:22:13	422619.510	320.316	793.772	295.316	275.003	618.763	406150.430	879.715	
3	04:23:21	422476.300	343.754	762.520	304.691	254.690	621.889	400214.500	901.591	
x		424899.040	386.985	883.882	320.837	298.962	716.164	404657.200	1108.901	
σ		4072.919	95.894	183.806	36.388	59.956	166.004	3915.774	378.174	
%RSD		0.959	24.780	20.795	11.342	20.055	23.180	0.968	34.104	

C4464-15 MH3BB3 11/17/2011 04:27:49 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	04:28:58	10428.805	14.583	120.313	678.141	5168164.000	4995864.500	732377.430	897335.140	16723.846
2	04:30:05	10463.205	15.104	100.000	685.954	5232308.100	5060139.100	742079.710	911964.660	16353.104
3	04:31:13	10428.805	15.625	95.313	653.140	5232209.800	5077903.300	740370.940	903915.540	16132.541
x		10440.272	15.104	105.209	672.412	5210894.000	5044635.600	738276.030	904405.110	16403.164
σ		19.861	0.521	13.289	17.141	37005.305	43160.843	5179.289	7327.037	298.814
%RSD		0.190	3.448	12.631	2.549	0.710	0.856	0.702	0.810	1.822
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	04:28:58	717823.740	1418.821	44619.573	596703.880	1022153.300	56335.862	934386.940	79379.302	110.938
2	04:30:05	724163.230	1426.634	44923.649	608778.920	1032588.600	56335.862	941890.840	79406.012	132.813
3	04:31:13	729762.650	1425.071	44431.488	610164.310	1028876.800	56814.314	943489.790	80447.753	104.688
x		723916.540	1423.508	44658.237	605215.700	1027872.900	56495.346	939922.520	79744.356	116.146
σ		5973.276	4.134	248.348	7403.930	5289.576	276.234	4860.164	609.307	14.768
%RSD		0.825	0.290	0.556	1.223	0.515	0.489	0.517	0.764	12.715
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	04:28:58	33036.593	1128.170	10971.399	6692.192	3683.287	119656.840	10316.224	526.572	304.691
2	04:30:05	38141.474	1309.435	12821.376	6734.400	3797.380	119809.680	10305.278	450.007	315.628
3	04:31:13	42856.375	1381.317	14111.654	6543.686	3748.929	118806.040	10306.842	448.445	318.754
x		38011.481	1272.974	12634.810	6656.759	3743.199	119424.190	10309.448	475.008	313.024
σ		4911.181	130.453	1578.419	100.173	57.262	540.760	5.920	44.663	7.384
%RSD		12.920	10.248	12.493	1.505	1.530	0.453	0.057	9.403	2.359
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	04:28:58	1146.921	648.452	6243.552	565.636	117.188	117.188	265.107	20.313	10.938
2	04:30:05	1195.363	617.201	6176.335	679.704	140.626	140.626	285.940	31.771	16.667
3	04:31:13	1298.497	606.263	6138.819	743.769	139.063	139.063	275.003	20.313	17.708
x		1213.593	623.972	6186.235	663.036	132.292	132.292	275.350	24.132	15.104
σ		77.415	21.895	53.064	90.229	13.104	13.104	10.421	6.615	3.646
%RSD		6.379	3.509	0.858	13.608	9.905	9.905	3.785	27.414	24.138
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	04:28:58	185.939	262.502	293.753	137.501	410.943	0.000	175665.630	129.688	104.688
2	04:30:05	210.939	256.252	234.377	142.188	429.694	0.000	178052.730	121.876	82.813
3	04:31:13	168.751	209.377	223.439	112.500	329.691	0.000	178585.880	135.938	71.875
x		188.543	242.710	250.523	130.730	390.110	0.000	177434.750	129.167	86.459
σ		21.214	29.037	37.836	15.960	53.157	0.000	1555.116	7.046	16.707
%RSD		11.252	11.963	15.103	12.208	13.626	0.000	0.876	5.455	19.324
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	04:28:58	1.563	1.563	118.750	40.625	240.627	382.818	69476.346	123508.160	397904.430
2	04:30:05	0.000	0.000	84.375	15.625	235.939	370.317	71010.424	124442.780	400595.270
3	04:31:13	0.000	0.000	70.313	18.750	201.564	265.627	70836.125	125397.960	403842.620
x		0.521	0.521	91.146	25.000	226.043	339.587	70440.965	124449.640	400780.770
σ		0.902	0.902	24.919	13.622	21.329	64.355	839.918	944.916	2973.438
%RSD		173.205	173.205	27.339	54.486	9.436	18.951	1.192	0.759	0.742
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	04:28:58	412902.400	332.816	807.835	975.033	943.781	2175.166	388791.410	14314.981	
2	04:30:05	421914.760	218.752	590.637	1032.850	926.593	2117.344	392680.000	14186.728	
3	04:31:13	421744.200	209.377	453.132	1000.035	940.656	2118.907	393405.810	14116.346	
x		418853.790	253.648	617.202	1002.639	937.010	2137.139	391625.740	14206.018	
σ		5154.757	68.722	178.837	28.996	9.156	32.941	2481.286	100.713	
%RSD		1.231	27.093	28.976	2.892	0.977	1.541	0.634	0.709	

C4464-17 MH3BB4 11/17/2011 04:35:42 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	04:36:50	10506.987	16.667	123.438	701.580	5176845.600	4830415.500	705353.150	855668.250	15763.380
2	04:37:58	10408.478	20.313	132.813	701.580	5200875.100	4829044.100	706298.170	859890.480	14854.594
3	04:39:06	10553.897	11.458	137.501	743.769	5217147.100	4856558.200	709054.810	858811.180	14696.618
x		10489.787	16.146	131.251	715.643	5198289.300	4838672.600	706902.040	858123.300	15104.864
σ		74.220	4.450	7.160	24.358	20274.800	15504.557	1923.298	2193.558	575.735
%RSD		0.708	27.561	5.455	3.404	0.390	0.320	0.272	0.256	3.812
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	04:36:50	687973.110	1293.809	42765.478	689179.210	939485.240	53616.050	890664.630	79429.580	103.125
2	04:37:58	688802.290	1210.989	43136.905	699723.690	940467.110	53713.290	889122.900	77679.370	104.688
3	04:39:06	681577.210	1271.932	42995.855	700527.300	937925.070	54281.055	897426.560	77219.072	100.000
x		686117.540	1258.910	42966.079	696476.730	939292.470	53870.132	892404.690	78109.341	102.605
σ		3953.837	42.918	187.495	6332.602	1281.938	359.176	4416.851	1166.294	2.387
%RSD		0.576	3.409	0.436	0.909	0.136	0.667	0.495	1.493	2.326
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	04:36:50	54597.884	1295.371	18400.906	5569.836	4213.121	106889.020	9415.602	1001.598	356.254
2	04:37:58	60124.696	1239.116	20175.174	5297.857	4081.833	101949.990	9348.370	973.471	270.315
3	04:39:06	63493.914	1192.237	21117.159	5211.888	4094.337	99588.104	9051.304	1003.160	281.253
x		59405.498	1242.242	19897.746	5359.860	4129.764	102809.040	9271.759	992.743	302.607
σ		4491.411	51.638	1379.214	186.855	72.460	3725.495	193.856	16.708	46.780
%RSD		7.561	4.157	6.932	3.486	1.755	3.624	2.091	1.683	15.459
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	04:36:50	1037.538	509.384	5493.243	811.481	192.189	192.189	272.919	21.875	15.104
2	04:37:58	1003.160	475.008	5572.962	859.401	198.439	198.439	269.273	20.313	14.583
3	04:39:06	937.531	539.073	5635.486	872.422	256.252	256.252	248.961	11.979	18.229
x		992.743	507.822	5567.231	847.768	215.627	215.627	263.718	18.056	15.972
σ		50.811	32.061	71.294	32.093	35.321	35.321	12.909	5.320	1.972
%RSD		5.118	6.313	1.281	3.786	16.381	16.381	4.895	29.465	12.345
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	04:36:50	90.625	159.376	150.001	95.313	251.565	0.000	177911.920	120.313	62.500
2	04:37:58	93.750	132.813	114.063	79.688	229.689	1.563	176317.340	103.125	43.750
3	04:39:06	98.438	118.750	109.375	57.813	185.939	0.000	174261.090	93.750	37.500
x		94.271	136.980	124.480	77.604	222.398	0.521	176163.450	105.730	47.917
σ		3.932	20.631	22.226	18.837	33.415	0.902	1830.277	13.471	13.010
%RSD		4.171	15.061	17.855	24.273	15.025	173.205	1.039	12.741	27.152
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	04:36:50	0.000	0.000	48.438	25.000	198.439	364.067	66495.021	118793.430	402838.290
2	04:37:58	0.000	0.000	42.188	7.813	203.126	275.003	67347.438	119212.530	400183.980
3	04:39:06	0.000	0.000	35.938	10.938	160.938	248.440	66965.963	119773.440	396972.790
x		0.000	0.000	42.188	14.583	187.501	295.836	66936.141	119259.800	399998.350
σ		0.000	0.000	6.250	9.155	23.123	60.564	426.990	491.711	2937.152
%RSD		0.000	0.000	14.815	62.780	12.332	20.472	0.638	0.412	0.734
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	04:36:50	421292.090	178.126	473.445	1390.693	1159.422	2928.425	395480.690	13457.899	
2	04:37:58	416847.330	110.938	243.752	1276.620	1153.172	2926.862	392362.060	13731.596	
3	04:39:06	415136.070	84.375	209.377	1223.490	1246.929	2906.546	391406.700	13498.562	
x		417758.500	124.480	308.858	1296.934	1186.508	2920.611	393083.150	13562.686	
σ		3177.550	48.320	143.569	85.432	52.420	12.206	2130.568	147.687	
%RSD		0.761	38.818	46.484	6.587	4.418	0.418	0.542	1.089	

C4464-15X25 MH3BB3

11/17/2011 04:43:36 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	04:44:44	10571.097	15.104	23.438	370.317	352252.470	213424.620	30360.352	36535.723	13981.839
2	04:45:52	10671.172	19.792	25.000	384.380	352502.270	210727.200	30570.174	36543.555	14114.782
3	04:47:00	10736.846	20.313	14.063	420.319	352374.170	212741.100	30640.637	36756.601	13991.223
x		10659.705	18.403	20.833	391.672	352376.300	212297.640	30523.721	36611.960	14029.281
σ		83.467	2.869	5.916	25.786	124.913	1402.321	145.802	125.324	74.194
%RSD		0.783	15.587	28.395	6.584	0.035	0.661	0.478	0.342	0.529
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	04:44:44	29677.670	1067.227	21248.603	208907.010	259663.630	2447.085	38888.797	79275.603	67.188
2	04:45:52	29580.594	1032.850	20808.894	207543.600	258147.460	2362.695	38766.591	79360.447	35.938
3	04:47:00	30091.033	1042.226	21356.577	206922.190	259887.960	2301.748	38893.498	79712.399	53.125
x		29783.099	1047.434	21138.025	207790.930	259233.020	2370.509	38849.629	79449.483	52.083
σ		271.060	17.771	290.103	1015.264	946.791	72.983	71.951	231.610	15.651
%RSD		0.910	1.697	1.372	0.489	0.365	3.079	0.185	0.292	30.050
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	04:44:44	12319.372	728.144	4106.840	4758.605	517.197	78259.084	2903.420	68.750	89.063
2	04:45:52	11227.848	756.270	3733.300	4410.056	485.946	78414.621	2965.933	34.375	76.563
3	04:47:00	10253.679	759.395	3473.860	4752.353	468.758	77952.728	3000.315	60.938	85.938
x		11266.966	747.936	3771.333	4640.338	490.633	78208.811	2956.556	54.688	83.854
σ		1033.402	17.212	318.200	199.455	24.557	235.014	49.123	18.020	6.505
%RSD		9.172	2.301	8.437	4.298	5.005	0.300	1.662	32.950	7.758
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	04:44:44	171.876	54.688	312.503	165.105	37.500	37.500	286.982	16.667	11.979
2	04:45:52	162.501	76.563	312.503	150.522	40.625	40.625	316.149	11.979	11.458
3	04:47:00	170.314	57.813	295.316	120.834	40.625	40.625	284.899	18.229	18.229
x		168.230	63.021	306.774	145.487	39.583	39.583	296.010	15.625	13.889
σ		5.023	11.831	9.923	22.561	1.804	1.804	17.472	3.253	3.768
%RSD		2.986	18.773	3.235	15.507	4.558	4.558	5.903	20.817	27.128
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	04:44:44	78.125	90.625	103.125	68.750	160.938	0.000	183736.520	121.876	6.250
2	04:45:52	68.750	73.438	101.563	45.313	125.001	1.563	184320.530	137.501	9.375
3	04:47:00	68.750	67.188	62.500	43.750	104.688	1.563	184114.780	137.501	4.688
x		71.875	77.084	89.063	52.604	130.209	1.042	184057.280	132.292	6.771
σ		5.413	12.137	23.017	14.005	28.485	0.902	296.223	9.021	2.387
%RSD		7.531	15.745	25.844	26.622	21.876	86.603	0.161	6.819	35.251
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	04:44:44	0.000	0.000	6.250	0.000	103.125	201.564	2867.475	5182.190	408547.020
2	04:45:52	4.688	4.688	9.375	3.125	54.688	137.501	2914.360	5177.501	409500.300
3	04:47:00	0.000	0.000	6.250	1.563	39.063	106.250	2983.124	4991.497	410989.020
x		1.563	1.563	7.292	1.563	65.625	148.438	2921.653	5117.062	409678.780
σ		2.706	2.706	1.804	1.563	33.403	48.589	58.168	108.768	1230.747
%RSD		173.205	173.205	24.744	100.000	50.899	32.733	1.991	2.126	0.300
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	04:44:44	426415.790	43.750	95.313	139.063	140.626	342.192	408193.370	645.327	
2	04:45:52	429137.690	51.563	85.938	139.063	139.063	310.941	410398.980	593.762	
3	04:47:00	429475.750	32.813	87.500	154.688	126.563	309.378	411357.210	548.448	
x		428343.080	42.708	89.584	144.272	135.417	320.837	409983.190	595.846	
σ		1677.615	9.418	5.023	9.021	7.708	18.510	1622.384	48.473	
%RSD		0.392	22.053	5.607	6.253	5.692	5.769	0.396	8.135	

## C4464-17X25 MH3BB4 11/17/2011 04:51:29 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	04:52:37	10694.627	16.146	21.875	368.755	354196.540	202997.730	28907.343	35025.698	14436.979
2	04:53:45	10474.151	9.896	20.313	346.879	353105.970	204341.690	28932.393	35475.243	14407.261
3	04:54:53	10502.297	10.938	23.438	417.194	354817.930	204680.870	28886.989	35204.261	15006.315
x		10557.025	12.326	21.875	377.609	354040.150	204006.760	28908.908	35235.067	14616.852
$\sigma$		119.995	3.348	1.563	35.984	866.626	890.151	22.743	226.350	337.612
%RSD		1.137	27.165	7.143	9.529	0.245	0.436	0.079	0.642	2.310
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	04:52:37	28425.126	989.097	21187.575	205910.860	253976.820	2270.493	36755.034	78513.600	46.875
2	04:53:45	28171.500	1012.536	21017.011	205381.440	255616.620	2261.116	36985.315	78747.695	57.813
3	04:54:53	28368.765	1167.235	20955.984	206154.960	256087.440	2372.072	37577.482	79787.818	40.625
x		28321.797	1056.289	21053.524	205815.750	255226.960	2301.227	37105.944	79016.371	48.438
$\sigma$		133.177	96.794	120.035	395.433	1107.950	61.532	424.286	678.268	8.700
%RSD		0.470	9.164	0.570	0.192	0.434	2.674	1.143	0.858	17.961
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	04:52:37	7913.129	620.326	2659.623	4583.548	517.197	77303.904	2809.651	73.438	89.063
2	04:53:45	7509.786	659.390	2470.526	4688.269	473.445	78340.780	2909.671	62.500	78.125
3	04:54:53	7369.088	714.080	2406.453	4594.489	546.885	80457.181	3020.632	89.063	60.938
x		7597.334	664.599	2512.200	4622.102	512.509	78700.622	2913.318	75.000	76.042
$\sigma$		282.389	47.094	131.629	57.563	36.944	1607.141	105.538	13.350	14.178
%RSD		3.717	7.086	5.240	1.245	7.208	2.042	3.623	17.800	18.645
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	04:52:37	157.813	62.500	329.691	105.209	32.813	32.813	269.794	19.271	11.979
2	04:53:45	195.314	59.375	298.441	121.355	21.875	21.875	290.107	17.708	19.792
3	04:54:53	185.939	65.625	260.940	101.563	48.438	48.438	282.294	21.354	11.458
x		179.689	62.500	296.357	109.375	34.375	34.375	280.732	19.444	14.410
$\sigma$		19.516	3.125	34.423	10.533	13.350	13.350	10.246	1.829	4.668
%RSD		10.861	5.000	11.615	9.630	38.836	38.836	3.650	9.407	32.396
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	04:52:37	65.625	82.813	78.125	54.688	131.251	0.000	182022.600	165.626	12.500
2	04:53:45	46.875	95.313	81.250	37.500	107.813	0.000	183454.810	126.563	15.625
3	04:54:53	46.875	65.625	65.625	39.063	70.313	0.000	183970.750	109.375	14.063
x		53.125	81.250	75.000	43.750	103.125	0.000	183149.390	133.855	14.063
$\sigma$		10.825	14.905	8.268	9.504	30.738	0.000	1009.351	28.825	1.563
%RSD		20.377	18.345	11.024	21.724	29.807	0.000	0.551	21.535	11.111
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	04:52:37	0.000	0.000	6.250	6.250	90.625	231.252	2767.456	4863.328	406463.840
2	04:53:45	0.000	0.000	14.063	6.250	70.313	112.500	2794.023	5050.893	407343.050
3	04:54:53	0.000	0.000	9.375	3.125	64.063	96.875	2914.360	5033.699	409529.240
x		0.000	0.000	9.896	5.208	75.000	146.876	2825.280	4982.640	407778.710
$\sigma$		0.000	0.000	3.932	1.804	13.888	73.488	78.281	103.684	1578.452
%RSD		0.000	0.000	39.736	34.641	18.517	50.034	2.771	2.081	0.387
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	04:52:37	424647.070	50.000	118.750	168.751	162.501	357.817	406499.200	584.387	
2	04:53:45	426544.550	46.875	123.438	143.751	120.313	381.255	407315.720	595.325	
3	04:54:53	428163.800	59.375	132.813	164.063	145.313	332.816	407556.830	589.075	
x		426451.810	52.083	125.001	158.855	142.709	357.296	407123.920	589.596	
$\sigma$		1760.197	6.505	7.160	13.289	21.214	24.224	554.288	5.488	
%RSD		0.413	12.490	5.728	8.366	14.865	6.780	0.136	0.931	

C4464-01 MH3BA1 11/17/2011 04:59:23 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	05:00:31	10103.572	20.833	928.155	5622.981	321128300.000	284833720.000	40605977.000	48814363.000	37336.226
2	05:01:39	10372.514	18.229	901.591	5888.713	329136180.000	292206810.000	41772408.000	50057043.000	37549.283
3	05:02:47	10388.151	11.458	1054.726	5963.745	332051110.000	295992620.000	42284338.000	50633732.000	37842.242
x		10288.079	16.840	961.491	5825.146	327438530.000	291011050.000	41554241.000	49835046.000	37575.917
σ		159.979	4.839	81.830	179.054	5655831.700	5674737.700	860186.810	929778.060	254.057
%RSD		1.555	28.737	8.511	3.074	1.727	1.950	2.070	1.866	0.676
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	05:00:31	648172.010	91896.187	36239.658	689952.740	25959079.000	51117.855	842778.620	77473.570	989.097
2	05:01:39	670918.130	95038.521	37557.116	716763.050	26684790.000	52229.679	862599.850	78654.999	1020.349
3	05:02:47	675721.120	96323.647	37757.644	730058.450	27018099.000	53360.408	872473.190	79409.154	1042.226
x		664937.080	94419.452	37184.806	712258.080	26553989.000	52235.981	859283.880	78512.574	1017.224
σ		14716.251	2277.726	824.640	20428.856	541491.070	1121.290	15122.449	975.621	26.702
%RSD		2.213	2.412	2.218	2.868	2.039	2.147	1.760	1.243	2.625
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	05:00:31	32065.634	5665.186	9288.957	85291.354	1020817.400	1493387.800	42137.052	928.155	2664.311
2	05:01:39	35199.562	5741.779	10686.808	88708.947	1054133.000	1537690.100	43082.052	895.341	2758.079
3	05:02:47	36258.455	5844.946	10944.816	89125.591	1059282.900	1555168.600	43567.897	921.905	2804.963
x		34507.884	5750.637	10306.860	87708.631	1044744.400	1528748.800	42929.000	915.133	2742.451
σ		2180.310	90.207	890.920	2103.763	20880.824	31846.151	727.597	17.424	71.616
%RSD		6.318	1.569	8.644	2.399	1.999	2.083	1.695	1.904	2.611
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	05:00:31	1145.358	357.817	554.698	3947.941	151.563	151.563	284.378	28.646	18.750
2	05:01:39	1223.490	395.318	567.199	4212.079	170.314	170.314	292.190	31.771	20.313
3	05:02:47	1346.939	323.441	525.010	4236.566	201.564	201.564	274.482	32.292	21.354
x		1238.596	358.859	548.969	4132.195	174.480	174.480	283.683	30.903	20.139
σ		101.635	35.950	21.670	160.038	25.259	25.259	8.875	1.972	1.311
%RSD		8.206	10.018	3.947	3.873	14.477	14.477	3.128	6.381	6.508
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	05:00:31	16518.920	135.938	2865.912	90.625	239.065	1.563	166982.740	418.756	126.563
2	05:01:39	16636.244	150.001	3019.069	81.250	243.752	3.125	168162.080	460.945	125.001
3	05:02:47	17047.666	142.188	2959.682	109.375	250.002	1.563	171341.720	450.007	140.626
x		16734.276	142.709	2948.221	93.750	244.273	2.083	168828.850	443.236	130.730
σ		277.670	7.046	77.219	14.321	5.487	0.902	2254.683	21.894	8.606
%RSD		1.659	4.937	2.619	15.275	2.246	43.301	1.335	4.940	6.583
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	05:00:31	81.250	81.250	48.438	15.625	117.188	326.566	239088.810	425211.950	411281.640
2	05:01:39	109.375	109.375	68.750	10.938	106.250	262.502	246872.650	436364.230	412788.230
3	05:02:47	137.501	137.501	76.563	18.750	95.313	217.189	249085.570	444334.010	420888.260
x		109.375	109.375	64.583	15.104	106.250	268.753	245015.680	435303.400	414986.040
σ		28.125	28.125	14.518	3.932	10.938	54.956	5250.724	9605.071	5166.678
%RSD		25.714	25.714	22.480	26.034	10.294	20.448	2.143	2.207	1.245
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	05:00:31	432203.050	121.876	242.190	790.647	712.518	1631.343	375447.770	11698.538	
2	05:01:39	436725.000	75.000	170.314	1070.353	1075.040	2547.102	375906.470	11950.309	
3	05:02:47	442605.000	51.563	148.438	1396.943	1184.424	3275.375	382676.450	12349.085	
x		437177.690	82.813	186.980	1085.981	990.661	2484.607	378010.230	11999.311	
σ		5215.728	35.802	49.048	303.450	247.010	823.796	4047.569	328.030	
%RSD		1.193	43.232	26.231	27.942	24.934	33.156	1.071	2.734	

C4464-02 MH3BA2 11/17/2011 05:07:17 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	05:08:25	10355.314	11.979	1345.376	4911.782	230402130.000	36644060.000	5200816.400	6297000.600	33136.825
2	05:09:33	10410.042	14.583	1245.367	4799.244	233897280.000	37234520.000	5283426.400	6396552.400	33175.978
3	05:10:41	10081.681	12.500	1320.374	4880.521	233049180.000	37180242.000	5257168.900	6391765.100	33248.020
x		10282.346	13.021	1303.705	4863.849	232449530.000	37019607.000	5247137.200	6361772.700	33186.941
σ		175.922	1.378	52.046	58.092	1823107.700	326364.150	42208.765	56145.301	56.403
%RSD		1.711	10.583	3.992	1.194	0.784	0.882	0.804	0.883	0.170
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	05:08:25	1232822.600	44506.722	63658.707	708250.740	8558685.200	166119.640	2806377.100	81473.857	1168.798
2	05:09:33	1248847.500	45290.429	65052.465	720658.100	8668038.000	168699.610	2839972.300	78241.802	1146.921
3	05:10:41	1245440.400	45293.564	64730.696	720139.140	8647229.500	169377.880	2850650.300	79717.112	1185.987
x		1242370.200	45030.238	64480.623	716349.330	8624650.900	168065.710	2832333.200	79810.924	1167.235
σ		8442.123	453.381	729.755	7018.383	58067.672	1719.128	23103.998	1618.068	19.580
%RSD		0.680	1.007	1.132	0.980	0.673	1.023	0.816	2.027	1.677
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	05:08:25	42547.641	4772.672	12674.370	19547.740	4161192.500	343821.070	26746.890	1506.329	1981.387
2	05:09:33	45188.545	4761.731	13387.520	19629.101	4256844.800	350577.650	27232.181	1517.268	2131.409
3	05:10:41	46473.909	4886.773	14009.991	19661.959	4254550.300	347953.710	26973.879	1496.953	2129.846
x		44736.698	4807.059	13357.294	19612.933	4224195.900	347450.810	26984.317	1506.850	2080.881
σ		2001.754	69.251	668.324	58.801	54574.606	3406.248	242.814	10.167	86.167
%RSD		4.475	1.441	5.003	0.300	1.292	0.980	0.900	0.675	4.141
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	05:08:25	1164.110	395.318	585.950	2901.336	189.064	189.064	295.316	32.292	18.750
2	05:09:33	1173.486	431.257	585.950	2934.156	234.377	234.377	283.857	19.792	17.188
3	05:10:41	1150.046	382.818	582.824	2970.100	229.689	229.689	283.857	33.333	22.396
x		1162.547	403.131	584.908	2935.197	217.710	217.710	287.677	28.472	19.444
σ		11.798	25.147	1.804	34.394	24.919	24.919	6.616	7.536	2.673
%RSD		1.015	6.238	0.308	1.172	11.446	11.446	2.300	26.467	13.745
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	05:08:25	3634.837	92.188	710.955	64.063	159.376	0.000	177181.050	192.189	65.625
2	05:09:33	3612.957	106.250	693.767	35.938	162.501	0.000	172750.720	209.377	78.125
3	05:10:41	3481.674	76.563	676.579	35.938	146.876	1.563	173065.430	178.126	71.875
x		3576.490	91.667	693.767	45.313	156.251	0.521	174332.400	193.230	71.875
σ		82.838	14.851	17.188	16.238	8.268	0.902	2472.015	15.651	6.250
%RSD		2.316	16.201	2.478	35.836	5.292	173.205	1.418	8.100	8.696
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	05:08:25	28.125	28.125	45.313	18.750	160.938	404.693	160716.170	287009.110	424933.530
2	05:09:33	29.688	29.688	67.188	4.688	148.438	306.253	162729.390	289953.620	416258.660
3	05:10:41	7.813	7.813	43.750	7.813	135.938	256.252	162775.220	291594.330	418502.500
x		21.875	21.875	52.083	10.417	148.438	322.400	162073.600	289519.020	419898.230
σ		12.204	12.204	13.104	7.384	12.500	75.526	1175.789	2323.296	4502.711
%RSD		55.788	55.788	25.160	70.887	8.421	23.426	0.725	0.802	1.072
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	05:08:25	448532.520	70.313	184.376	896.903	790.647	1986.076	401771.360	12938.669	
2	05:09:33	437552.890	67.188	151.563	912.529	853.150	1878.249	392153.320	12871.421	
3	05:10:41	442909.540	59.375	101.563	864.089	812.523	1787.612	392599.710	12960.564	
x		442998.320	65.625	145.834	891.174	818.773	1883.979	395508.130	12923.551	
σ		5490.351	5.634	41.703	24.723	31.717	99.356	5428.708	46.455	
%RSD		1.239	8.585	28.596	2.774	3.874	5.274	1.373	0.359	

C4464-03 MH3BA3 11/17/2011 05:15:12 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	05:16:20	9642.316	26.042	5269.722	4503.835	537625540.000	11629991.000	1697363.200	2018783.800	69557.992
2	05:17:28	9642.316	22.917	5147.802	4511.650	547066890.000	11876750.000	1715575.400	2064432.100	70776.455
3	05:18:36	10205.206	19.792	5290.042	4567.918	526115370.000	11359018.000	1663112.600	1988871.300	68177.926
x		9829.946	22.917	5235.855	4527.801	536935930.000	11621920.000	1692017.100	2024029.100	69504.124
σ		324.985	3.125	76.930	34.961	10492769.000	258960.600	26636.861	38052.483	1300.102
%RSD		3.306	13.636	1.469	0.772	1.954	2.228	1.574	1.880	1.871
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	05:16:20	1208943.000	84629.623	34078.098	716789.320	17865705.000	18371.180	306950.090	75960.791	14809.234
2	05:17:28	1236430.900	86918.303	34632.554	734667.190	18031823.000	18767.006	313826.790	74581.678	14942.185
3	05:18:36	1189719.100	82709.049	33783.650	709914.730	17204097.000	17466.922	294539.770	71657.393	13917.714
x		1211697.700	84752.325	34164.767	720457.080	17700542.000	18201.703	305105.550	74066.621	14556.378
σ		23477.449	2107.308	431.037	12777.339	437883.290	666.406	9774.918	2197.447	557.080
%RSD		1.938	2.486	1.262	1.774	2.474	3.661	3.204	2.967	3.827
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	05:16:20	78523.026	25093.895	15752.430	348405.140	655477.060	5785713.200	148481.710	3350.393	2229.862
2	05:17:28	81074.720	25972.025	16351.540	357204.430	665658.580	5893464.200	151127.990	3483.237	2408.015
3	05:18:36	80769.876	24408.334	17027.329	338788.900	630391.320	5622171.600	144432.710	3237.867	2243.926
x		80122.541	25158.085	16377.100	348132.830	650508.990	5767116.300	148014.140	3357.166	2293.934
σ		1393.581	783.819	637.834	9210.785	18150.929	136599.050	3372.046	122.825	99.047
%RSD		1.739	3.116	3.895	2.646	2.790	2.369	2.278	3.659	4.318
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	05:16:20	1928.255	400.006	760.958	4659.093	189.064	189.064	262.502	33.333	19.271
2	05:17:28	1926.692	410.943	706.267	4737.765	190.626	190.626	257.294	35.417	14.583
3	05:18:36	2092.341	464.070	715.643	4463.718	200.001	200.001	272.919	33.333	17.188
x		1982.429	425.006	727.623	4620.192	193.230	193.230	264.239	34.028	17.014
σ		95.189	34.269	29.247	141.104	5.916	5.916	7.956	1.203	2.349
%RSD		4.802	8.063	4.020	3.054	3.061	3.061	3.011	3.535	13.804
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	05:16:20	18582.390	1117.231	4331.907	651.577	1762.609	0.000	164557.970	464.070	146.876
2	05:17:28	19313.046	1065.665	4552.288	667.203	1787.612	0.000	162248.980	415.631	123.438
3	05:18:36	18037.943	1129.732	4163.106	587.512	1682.912	3.125	155509.010	460.945	125.001
x		18644.460	1104.209	4349.100	635.431	1744.377	1.042	160771.990	446.882	131.771
σ		639.813	33.961	195.159	42.228	54.679	1.804	4701.813	27.109	13.104
%RSD		3.432	3.076	4.487	6.646	3.135	173.205	2.925	6.066	9.945
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	05:16:20	134.376	134.376	87.500	21.875	5540.137	551.573	62026.551	110776.280	404816.480
2	05:17:28	120.313	120.313	84.375	7.813	5616.729	507.822	62932.061	112719.510	400135.780
3	05:18:36	137.501	137.501	51.563	10.938	5255.654	443.757	59599.063	106084.620	385311.500
x		130.730	130.730	74.479	13.542	5470.840	501.051	61519.225	109860.140	396754.590
σ		9.155	9.155	19.908	7.384	190.251	54.226	1723.442	3411.004	10182.601
%RSD		7.003	7.003	26.729	54.529	3.478	10.822	2.801	3.105	2.566
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	05:16:20	424428.210	75.000	217.189	1264.118	1190.675	2720.572	377633.960	2190.793	
2	05:17:28	419511.130	43.750	184.376	1534.457	1314.123	3472.297	371935.800	2011.079	
3	05:18:36	406687.250	71.875	89.063	1559.460	1346.939	3403.530	360594.270	1951.696	
x		416875.530	63.542	163.543	1452.679	1283.912	3198.800	370054.680	2051.189	
σ		9159.431	17.211	66.555	163.776	82.396	415.582	8674.202	124.493	
%RSD		2.197	27.086	40.696	11.274	6.418	12.992	2.344	6.069	

## C4464-01X25 MH3BA1 11/17/2011 05:23:07 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	05:24:15	11306.035	12.500	142.188	796.897	13348306.000	12006831.000	1751237.300	2147789.900	14591.823
2	05:25:23	11327.927	7.292	142.188	810.961	13616799.000	12278651.000	1786748.100	2202522.100	14396.313
3	05:26:31	11235.667	11.979	107.813	784.397	13662813.000	12141456.000	1783126.800	2187636.800	14824.876
x		11289.876	10.590	130.730	797.418	13542639.000	12142313.000	1773704.100	2179316.300	14604.337
σ		48.206	2.869	19.847	13.290	169862.930	135911.890	19540.875	28298.878	214.555
%RSD		0.427	27.086	15.181	1.667	1.254	1.119	1.102	1.299	1.469
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	05:24:15	29705.853	5029.010	22987.230	229637.200	1358413.100	2272.056	36798.897	81484.856	84.375
2	05:25:23	30106.691	5351.002	22462.959	229376.810	1374501.300	2307.999	37322.127	81800.716	126.563
3	05:26:31	30516.935	5224.393	22836.989	231266.290	1374005.300	2284.558	37698.112	82207.730	79.688
x		30109.826	5201.468	22762.393	230093.430	1368973.200	2288.204	37273.045	81831.101	96.875
σ		405.550	162.215	269.978	1024.032	9148.717	18.247	451.612	362.394	25.817
%RSD		1.347	3.119	1.186	0.445	0.668	0.797	1.212	0.443	26.650
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	05:24:15	16389.083	1064.102	5272.848	8632.295	45520.847	165370.400	4791.428	95.313	195.314
2	05:25:23	15253.452	1059.414	4860.202	8898.083	46025.586	169207.120	4807.059	96.875	198.439
3	05:26:31	14014.684	1073.478	4719.530	8701.087	46676.129	172306.340	5036.825	65.625	210.939
x		15219.073	1065.665	4950.860	8743.821	46074.187	168961.290	4878.437	85.938	201.564
σ		1187.573	7.161	287.584	137.951	579.172	3474.499	137.390	17.609	8.268
%RSD		7.803	0.672	5.809	1.578	1.257	2.056	2.816	20.490	4.102
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	05:24:15	757.833	98.438	121.876	346.879	60.938	60.938	316.670	18.750	18.229
2	05:25:23	548.448	98.438	165.626	328.650	70.313	70.313	288.545	17.188	16.667
3	05:26:31	553.136	134.376	146.876	330.733	53.125	53.125	296.357	19.792	20.833
x		619.805	110.417	144.792	335.421	61.458	61.458	300.524	18.576	18.576
σ		119.558	20.749	21.949	9.978	8.606	8.606	14.518	1.311	2.105
%RSD		19.290	18.791	15.159	2.975	14.002	14.002	4.831	7.056	11.331
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	05:24:15	682.829	51.563	126.563	31.250	89.063	0.000	184510.460	160.938	26.563
2	05:25:23	703.142	37.500	154.688	32.813	56.250	0.000	184855.500	145.313	21.875
3	05:26:31	681.266	34.375	134.376	32.813	75.000	1.563	186615.670	157.813	25.000
x		689.079	41.146	138.542	32.292	73.438	0.521	185327.210	154.688	24.479
σ		12.204	9.155	14.518	0.902	16.462	0.902	1129.094	8.268	2.387
%RSD		1.771	22.251	10.479	2.794	22.416	173.205	0.609	5.345	9.750
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	05:24:15	7.813	7.813	15.625	4.688	75.000	185.939	10200.515	18616.810	418073.000
2	05:25:23	0.000	0.000	10.938	0.000	68.750	120.313	10355.314	18527.632	414901.270
3	05:26:31	9.375	9.375	10.938	6.250	78.125	96.875	10270.878	18494.777	419820.010
x		5.729	5.729	12.500	3.646	73.959	134.376	10275.569	18546.406	417598.090
σ		5.023	5.023	2.706	3.253	4.774	46.167	77.506	63.146	2493.522
%RSD		87.670	87.670	21.651	89.214	6.454	34.357	0.754	0.340	0.597
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	05:24:15	435765.100	29.688	85.938	481.258	421.881	1110.981	404864.690	535.948	
2	05:25:23	434376.890	32.813	84.375	471.883	460.945	996.910	404199.370	485.946	
3	05:26:31	440971.250	29.688	95.313	443.757	415.631	989.097	410122.460	537.510	
x		437037.750	30.729	88.542	465.633	432.819	1032.329	406395.510	519.801	
σ		3476.509	1.804	5.916	19.516	24.557	68.226	3244.732	29.330	
%RSD		0.795	5.871	6.681	4.191	5.674	6.609	0.798	5.643	

## C4464-02X25 MH3BA2 11/17/2011 05:31:02 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	05:32:10	10492.915	15.625	85.938	618.763	9090947.800	1459272.500	210307.020	261316.800	14241.470
2	05:33:18	10527.315	10.938	87.500	584.387	9178836.300	1469888.800	214269.950	265581.880	14405.697
3	05:34:25	10481.969	10.417	98.438	559.386	9164491.400	1477534.500	215898.880	264970.690	14765.439
x		10500.733	12.326	90.625	587.512	9144758.500	1468898.600	213491.950	263956.460	14470.869
σ		23.662	2.869	6.811	29.812	47150.169	9171.200	2875.969	2306.344	267.995
%RSD		0.225	23.271	7.515	5.074	0.516	0.624	1.347	0.874	1.852
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	05:32:10	49727.022	2786.209	21836.990	205264.150	547295.980	6614.031	107362.860	75684.329	106.250
2	05:33:18	50297.765	2812.777	21849.509	205435.330	549743.570	6789.113	109508.750	76001.632	81.250
3	05:34:25	49811.691	2853.410	21854.203	206345.180	554130.140	6417.066	109877.190	76000.062	100.000
x		49945.493	2817.465	21846.901	205681.550	550389.900	6606.737	108916.270	75895.341	95.834
σ		308.000	33.845	8.898	581.056	3462.618	186.131	1357.840	182.743	13.010
%RSD		0.617	1.201	0.041	0.283	0.629	2.817	1.247	0.241	13.576
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	05:32:10	12785.406	810.961	4286.581	5024.321	166021.640	88153.965	3947.420	125.001	131.251
2	05:33:18	12508.599	871.902	4072.455	5261.906	168098.840	89153.892	3911.473	132.813	175.001
3	05:34:25	12112.946	945.344	4109.966	5316.614	170057.760	90809.584	3988.057	103.125	156.251
x		12468.984	876.069	4156.334	5200.947	168059.410	89372.480	3948.983	120.313	154.168
σ		337.976	67.288	114.345	155.389	2018.350	1341.236	38.316	15.389	21.950
%RSD		2.711	7.681	2.751	2.988	1.201	1.501	0.970	12.791	14.237
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	05:32:10	264.065	92.188	137.501	236.981	67.188	67.188	282.815	17.708	18.750
2	05:33:18	248.440	68.750	135.938	263.544	81.250	81.250	251.044	11.979	15.104
3	05:34:25	262.502	89.063	151.563	262.502	50.000	50.000	278.128	17.708	14.583
x		258.336	83.334	141.667	254.343	66.146	66.146	270.662	15.799	16.146
σ		8.606	12.726	8.606	15.044	15.651	15.651	17.151	3.308	2.270
%RSD		3.331	15.271	6.075	5.915	23.661	23.661	6.337	20.937	14.061
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	05:32:10	170.314	53.125	75.000	37.500	79.688	0.000	174605.880	120.313	34.375
2	05:33:18	184.376	31.250	60.938	28.125	76.563	1.563	173288.420	143.751	25.000
3	05:34:25	170.314	53.125	62.500	39.063	59.375	0.000	172916.770	120.313	28.125
x		175.001	45.833	66.146	34.896	71.875	0.521	173603.690	128.126	29.167
σ		8.119	12.630	7.708	5.916	10.938	0.902	887.591	13.532	4.774
%RSD		4.639	27.555	11.653	16.952	15.217	173.205	0.511	10.561	16.366
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	05:32:10	0.000	0.000	21.875	4.688	68.750	184.376	6129.440	11257.559	397597.620
2	05:33:18	1.563	1.563	21.875	1.563	42.188	110.938	6295.137	11401.423	393983.920
3	05:34:25	3.125	3.125	14.063	9.375	56.250	114.063	6556.192	11277.887	394883.250
x		1.563	1.563	19.271	5.208	55.729	136.459	6326.923	11312.290	395488.260
σ		1.563	1.563	4.511	3.932	13.289	41.527	215.144	77.858	1881.288
%RSD		100.000	100.000	23.406	75.498	23.846	30.432	3.400	0.688	0.476
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	05:32:10	415896.780	34.375	128.126	407.818	337.504	746.895	393699.680	659.390	
2	05:33:18	412204.550	60.938	128.126	254.690	310.941	734.394	391440.420	531.260	
3	05:34:25	415380.520	89.063	129.688	310.941	329.691	703.142	391514.270	631.264	
x		414493.950	61.458	128.646	324.483	326.045	728.144	392218.120	607.305	
σ		1999.412	27.348	0.902	77.457	13.652	22.536	1283.598	67.342	
%RSD		0.482	44.498	0.701	23.871	4.187	3.095	0.327	11.089	

C4464-03X25 MH3BA3

11/17/2011 05:38:57 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	05:40:05	9775.218	15.104	248.440	615.638	22094773.000	482117.490	70178.202	87485.814	15849.412
2	05:41:13	10161.425	9.896	232.814	554.698	21828718.000	483644.390	70424.723	86973.324	15755.559
3	05:42:21	9784.600	10.938	250.002	581.262	21782901.000	476135.880	69346.028	85652.882	15750.866
x		9907.081	11.979	243.752	583.866	21902130.000	480632.590	69982.984	86704.007	15785.279
$\sigma$		220.318	2.756	9.504	30.553	168398.600	3968.395	565.224	945.679	55.591
%RSD		2.224	23.007	3.899	5.233	0.769	0.826	0.808	1.091	0.352
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	05:40:05	50799.535	4569.481	20804.200	198095.250	934746.880	775.021	13134.160	71525.484	692.204
2	05:41:13	49827.371	4592.926	20436.482	196187.950	931047.910	785.959	12822.940	71772.029	642.202
3	05:42:21	49322.498	4564.792	20092.245	196897.620	925704.380	859.401	13012.173	72403.327	575.012
x		49983.135	4575.733	20444.309	197060.270	930499.720	806.794	12989.758	71900.280	636.473
$\sigma$		750.737	15.073	356.042	963.998	4546.108	45.886	156.816	452.756	58.806
%RSD		1.502	0.329	1.742	0.489	0.489	5.687	1.207	0.630	9.239
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	05:40:05	12022.244	1701.664	3655.155	19137.810	27485.791	317335.860	8854.306	171.876	167.188
2	05:41:13	12081.669	1686.037	3634.837	18583.955	27537.453	316252.860	9146.677	182.814	162.501
3	05:42:21	11983.149	1603.215	3562.944	18507.293	27805.158	314205.290	9059.122	175.001	189.064
x		12029.021	1663.639	3617.646	18743.019	27609.467	315931.330	9020.035	176.564	172.918
$\sigma$		49.609	52.909	48.450	344.041	171.430	1589.857	150.054	5.634	14.178
%RSD		0.412	3.180	1.339	1.836	0.621	0.503	1.664	3.191	8.199
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	05:40:05	275.003	90.625	129.688	329.691	43.750	43.750	266.148	15.104	13.021
2	05:41:13	225.002	90.625	106.250	325.004	48.438	48.438	252.086	22.396	13.542
3	05:42:21	300.003	93.750	95.313	308.337	60.938	60.938	271.357	16.667	17.708
x		266.669	91.667	110.417	321.011	51.042	51.042	263.197	18.056	14.757
$\sigma$		38.189	1.804	17.562	11.223	8.885	8.885	9.969	3.839	2.569
%RSD		14.321	1.968	15.905	3.496	17.407	17.407	3.788	21.263	17.410
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	05:40:05	743.769	103.125	204.689	32.813	148.438	3.125	165457.340	142.188	23.438
2	05:41:13	750.020	87.500	201.564	59.375	121.876	0.000	165376.720	107.813	17.188
3	05:42:21	692.204	90.625	171.876	51.563	107.813	0.000	165983.700	132.813	32.813
x		728.664	93.750	192.710	47.917	126.042	1.042	165605.920	127.605	24.479
$\sigma$		31.730	8.268	18.110	13.651	20.631	1.804	329.642	17.770	7.864
%RSD		4.355	8.819	9.398	28.490	16.368	173.205	0.199	13.926	32.127
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	05:40:05	7.813	7.813	17.188	6.250	226.564	164.063	2400.202	4566.355	378958.990
2	05:41:13	3.125	3.125	21.875	7.813	242.190	120.313	2447.085	4478.827	380552.070
3	05:42:21	7.813	7.813	23.438	3.125	231.252	79.688	2426.769	4245.943	382371.580
x		6.250	6.250	20.833	5.729	233.335	121.355	2424.685	4430.375	380627.550
$\sigma$		2.706	2.706	3.253	2.387	8.018	42.198	23.511	165.610	1707.544
%RSD		43.301	43.301	15.613	41.660	3.436	34.772	0.970	3.738	0.449
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	05:40:05	400428.180	67.188	129.688	267.190	251.565	576.574	373071.080	210.939	
2	05:41:13	400972.830	59.375	175.001	257.815	253.127	646.890	376345.950	212.502	
3	05:42:21	403902.070	53.125	157.813	279.690	231.252	656.265	379756.310	235.939	
x		401767.690	59.896	154.168	268.232	245.315	626.576	376391.110	219.793	
$\sigma$		1868.380	7.046	22.875	10.975	12.204	43.556	3342.843	14.005	
%RSD		0.465	11.763	14.838	4.092	4.975	6.951	0.888	6.372	

CCV46 11/17/2011 05:46:52 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	05:48:00	9750.201	16329.640	2589.297	423.444	13153809.000	10682350.000	1589847.000	1919264.700	2901047.800
2	05:49:08	9839.325	16404.205	2664.311	456.257	13184160.000	10721414.000	1601622.300	1925982.200	2936839.700
3	05:50:15	9670.460	16670.659	2568.981	468.758	13207442.000	10715211.000	1595332.900	1921456.600	2921836.600
x		9753.328	16468.168	2607.530	449.486	13181804.000	10706325.000	1595600.700	1922234.500	2919908.000
σ		84.476	179.282	50.212	23.403	26894.400	20993.238	5892.215	3425.634	17973.751
%RSD		0.866	1.089	1.926	5.207	0.204	0.196	0.369	0.178	0.616
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	05:48:00	34062.435	167803.210	32969.250	166527.470	8974575.800	40819.171	678090.460	70471.830	22312.724
2	05:49:08	34676.410	169603.980	33244.888	168895.660	9004315.900	41168.610	684751.870	70239.439	22769.694
3	05:50:15	34062.435	168369.190	33262.115	167586.630	9018835.900	41326.878	682607.510	69121.506	22581.896
x		34267.094	168592.120	33158.751	167669.920	8999242.500	41104.886	681816.610	69944.258	22554.771
σ		354.478	920.851	164.339	1186.287	22561.997	259.783	3400.405	721.936	229.689
%RSD		1.034	0.546	0.496	0.708	0.251	0.632	0.499	1.032	1.018
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	05:48:00	345243.830	309826.830	39606.390	1152936.800	869972.710	19021305.000	487177.060	396309.430	87866.263
2	05:49:08	345543.130	314981.480	39684.732	1166438.300	872259.130	19114298.000	492427.550	400796.100	89213.638
3	05:50:15	347198.160	313264.650	39625.192	1171500.300	879112.220	19240316.000	491538.330	402140.920	89526.524
x		345995.040	312690.990	39638.771	1163625.200	873781.350	19125306.000	490380.980	399748.820	88868.808
σ		1052.625	2624.772	40.898	9596.145	4756.105	109919.550	2810.073	3053.548	882.211
%RSD		0.304	0.839	0.103	0.825	0.544	0.575	0.573	0.764	0.993
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	05:48:00	434054.820	209920.140	139050.010	63225.540	3448.854	3448.854	11530.693	4898.235	16.667
2	05:49:08	439223.310	211337.690	139461.800	63763.862	3558.256	3558.256	11548.416	4825.294	15.625
3	05:50:15	438682.050	211475.640	140948.160	63497.053	3592.639	3592.639	11741.803	4940.438	13.021
x		437320.060	210911.160	139819.990	63495.485	3533.250	3533.250	11606.971	4887.989	15.104
σ		2840.701	861.013	998.484	269.165	75.084	75.084	117.104	58.252	1.878
%RSD		0.650	0.408	0.714	0.424	2.125	2.125	1.009	1.192	12.433
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	05:48:00	61863.346	108301.160	115787.660	67575.072	176379.030	6.250	160806.240	6712.514	332074.610
2	05:49:08	62294.902	109245.810	117273.140	68567.283	176396.430	3.125	158736.410	6670.307	329964.040
3	05:50:15	62966.588	109793.740	118246.740	68774.525	179740.860	1.563	160615.040	6842.263	335189.860
x		62374.945	109113.570	117102.510	68305.626	177505.440	3.646	160052.560	6741.695	332409.500
σ		555.959	755.026	1238.389	641.109	1935.948	2.387	1143.826	89.615	2628.956
%RSD		0.891	0.692	1.058	0.939	1.091	65.465	0.715	1.329	0.791
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	05:48:00	5074.339	5074.339	322635.410	74554.977	208391.760	309336.690	310278.660	548807.010	376663.530
2	05:49:08	4835.193	4835.193	321393.820	74933.512	210265.790	310495.800	310428.750	551957.790	375290.600
3	05:50:15	5036.825	5036.825	326418.340	76296.950	211356.710	313352.490	311843.440	557334.040	375439.750
x		4982.119	4982.119	323482.520	75261.813	210004.750	311061.660	310850.280	552699.620	375797.960
σ		128.617	128.617	2617.182	916.217	1499.617	2066.834	863.364	4311.645	753.306
%RSD		2.582	2.582	0.809	1.217	0.714	0.664	0.278	0.780	0.200
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	05:48:00	394825.430	577050.390	1402923.600	459930.210	435196.600	1039833.700	371607.100	2519179.400	
2	05:49:08	395244.600	578831.240	1404619.300	464054.160	438422.710	1042042.500	367568.670	2534134.200	
3	05:50:15	394680.890	584744.590	1412742.900	468652.230	441403.030	1046101.800	368923.240	2546443.500	
x		394916.970	580208.740	1406761.900	464212.200	438340.780	1042659.400	369366.340	2533252.400	
σ		292.790	4027.818	5248.614	4363.156	3104.030	3179.252	2055.351	13653.436	
%RSD		0.074	0.694	0.373	0.940	0.708	0.305	0.556	0.539	

CCB46 11/17/2011 05:54:44 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	05:55:52	10028.519	22.917	57.813	353.129	176396.430	10197.388	1396.943	1614.154	15824.385
2	05:57:00	9825.253	15.625	54.688	364.067	169330.450	7175.239	982.846	1200.050	14716.952
3	05:58:08	9940.958	18.229	48.438	384.380	174235.780	8560.377	1254.743	1431.322	15650.756
x		9931.576	18.924	53.646	367.192	173320.890	8644.335	1211.511	1415.175	15397.364
σ		101.957	3.695	4.774	15.858	3620.746	1512.823	210.406	207.523	595.615
%RSD		1.027	19.526	8.898	4.319	2.089	17.501	17.367	14.664	3.868
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	05:55:52	1081.291	1153.172	18560.487	173475.040	213419.860	60.938	1107.856	72147.350	54.688
2	05:57:00	1131.295	1092.229	18881.219	171346.460	209090.920	54.688	962.532	72469.285	53.125
3	05:58:08	1156.297	1132.857	19139.375	172845.610	211711.920	64.063	948.469	70385.468	57.813
x		1122.961	1126.086	18860.360	172555.700	211407.570	59.896	1006.286	71667.368	55.208
σ		38.191	31.030	290.007	1093.504	2180.458	4.774	88.243	1121.767	2.387
%RSD		3.401	2.756	1.538	0.634	1.031	7.970	8.769	1.565	4.323
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	05:55:52	5555.768	818.773	1820.429	5319.740	767.208	82141.727	3280.064	271.878	98.438
2	05:57:00	5277.537	734.394	1576.650	5033.699	617.201	75640.347	3366.022	156.251	110.938
3	05:58:08	5125.920	782.834	1686.037	4885.210	700.017	76210.553	3226.927	235.939	162.501
x		5319.741	778.667	1694.372	5079.550	694.809	77997.543	3291.004	221.356	123.959
σ		218.010	42.344	122.103	220.864	75.139	3600.275	70.190	59.177	33.958
%RSD		4.098	5.438	7.206	4.348	10.814	4.616	2.133	26.734	27.395
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	05:55:52	454.695	207.814	160.938	110.938	25.000	25.000	270.836	15.104	9.375
2	05:57:00	346.879	165.626	106.250	86.459	23.438	23.438	259.377	20.313	17.708
3	05:58:08	367.192	134.376	157.813	108.855	20.313	20.313	247.398	20.313	19.792
x		389.589	169.272	141.667	102.084	22.917	22.917	259.204	18.576	15.625
σ		57.291	36.855	30.712	13.572	2.387	2.387	11.720	3.007	5.512
%RSD		14.705	21.772	21.679	13.295	10.415	10.415	4.522	16.187	35.277
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	05:55:52	300.003	464.070	500.009	301.566	756.270	1.563	169763.670	115.625	215.627
2	05:57:00	228.127	359.380	376.567	240.627	600.013	1.563	169705.170	125.001	121.876
3	05:58:08	187.501	370.317	309.378	182.814	475.008	0.000	165841.440	114.063	209.377
x		238.544	397.922	395.318	241.669	610.430	1.042	168436.760	118.230	182.293
σ		56.970	57.546	96.689	59.383	140.920	0.902	2247.804	5.916	52.416
%RSD		23.882	14.462	24.458	24.572	23.085	86.603	1.335	5.003	28.754
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	05:55:52	0.000	0.000	248.440	32.813	428.131	1006.285	312.503	545.323	383854.300
2	05:57:00	1.563	1.563	150.001	29.688	321.879	739.082	176.564	304.691	385699.900
3	05:58:08	6.250	6.250	159.376	45.313	315.628	537.510	178.126	354.692	378214.650
x		2.604	2.604	185.939	35.938	355.213	760.959	222.398	401.569	382589.620
σ		3.253	3.253	54.330	8.268	63.227	235.152	78.038	126.980	3899.593
%RSD		124.900	124.900	29.219	23.007	17.800	30.902	35.089	31.621	1.019
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	05:55:52	401167.240	410.943	1012.536	523.447	457.820	1221.927	388293.770	1570.399	
2	05:57:00	403349.280	256.252	659.390	357.817	353.129	775.021	386178.190	1034.412	
3	05:58:08	398474.680	398.443	875.027	421.881	375.005	875.027	379844.550	1162.547	
x		400997.070	355.213	848.984	434.382	395.318	957.325	384772.170	1255.786	
σ		2441.751	85.930	178.007	83.520	55.222	234.544	4396.589	279.894	
%RSD		0.609	24.191	20.967	19.227	13.969	24.500	1.143	22.288	

C4464-04 MH3BA4

11/17/2011 06:02:37 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	06:03:45	10087.936	19.271	1178.174	1648.533	197923530.000	31596698.000	4582170.900	5605896.300	23946.616
2	06:04:53	10061.354	11.458	1287.558	1667.285	199353830.000	31899686.000	4604947.600	5656997.100	24187.647
3	06:06:01	9820.562	17.708	1271.932	1793.863	197929620.000	31602377.000	4572323.000	5597630.300	23918.444
x		9989.951	16.146	1245.888	1703.227	198402330.000	31699587.000	4586480.500	5620174.600	24017.569
σ		147.296	4.134	59.160	79.051	824029.980	173313.860	16733.804	32155.976	147.964
%RSD		1.474	25.604	4.748	4.641	0.415	0.547	0.365	0.572	0.616
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	06:03:45	1182569.900	40905.355	31243.503	680126.070	8621025.900	229545.110	3880910.100	72678.155	1250.055
2	06:04:53	1184183.100	40778.430	31652.214	692096.540	8673348.700	232036.440	3916865.700	72318.524	1203.176
3	06:06:01	1180004.600	40135.990	31271.690	691086.880	8637090.900	230739.120	3889902.100	71319.772	1096.917
x		1182252.500	40606.592	31389.136	687769.830	8643821.800	230773.550	3895892.700	72105.484	1183.383
σ		2107.274	412.465	228.268	6638.915	26802.936	1246.021	18711.367	703.804	78.464
%RSD		0.178	1.016	0.727	0.965	0.310	0.540	0.480	0.976	6.630
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	06:03:45	31849.527	5161.870	8810.529	784134.560	7554184.200	12963209.000	355721.230	1712.603	1606.340
2	06:04:53	33354.518	5271.285	9479.707	788326.390	7594576.800	13030343.000	357367.820	1711.040	1631.343
3	06:06:01	33901.115	5340.060	9312.409	783273.580	7562520.700	12984770.000	353262.910	1773.548	1709.477
x		33035.053	5257.738	9200.882	785244.850	7570427.300	12992774.000	355450.650	1732.397	1649.054
σ		1062.449	89.864	348.251	2703.197	21325.466	34274.950	2065.789	35.646	53.801
%RSD		3.216	1.709	3.785	0.344	0.282	0.264	0.581	2.058	3.263
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	06:03:45	1198.488	487.508	617.201	4469.449	167.188	167.188	232.294	25.000	15.625
2	06:04:53	1089.104	482.821	564.074	4588.237	118.750	118.750	273.440	39.583	20.313
3	06:06:01	1107.856	460.945	632.827	4613.245	164.063	164.063	240.627	23.438	15.625
x		1131.816	477.091	604.700	4556.977	150.001	150.001	248.787	29.340	17.188
σ		58.496	14.178	36.041	76.826	27.109	27.109	21.753	8.905	2.706
%RSD		5.168	2.972	5.960	1.686	18.072	18.072	8.744	30.351	15.746
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	06:03:45	4725.782	459.382	1334.437	310.941	671.891	0.000	156891.190	214.064	134.376
2	06:04:53	4774.235	390.630	1217.239	235.939	673.453	0.000	154526.560	200.001	82.813
3	06:06:01	5055.582	407.818	1209.426	248.440	645.327	0.000	153818.990	214.064	95.313
x		4851.866	419.277	1253.701	265.107	663.557	0.000	155078.910	209.377	104.167
σ		178.079	35.780	70.029	40.183	15.807	0.000	1608.858	8.119	26.898
%RSD		3.670	8.534	5.586	15.157	2.382	0.000	1.037	3.878	25.822
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	06:03:45	43.750	43.750	90.625	17.188	242.190	582.824	390920.210	695916.180	383981.080
2	06:04:53	29.688	29.688	70.313	14.063	210.939	481.258	396322.280	705892.920	380524.800
3	06:06:01	26.563	26.563	81.250	14.063	204.689	420.319	390624.790	700471.540	378554.730
x		33.333	33.333	80.729	15.104	219.273	494.800	392622.430	700760.210	381020.200
σ		9.155	9.155	10.166	1.804	20.091	82.095	3207.573	4994.630	2746.887
%RSD		27.466	27.466	12.593	11.945	9.163	16.592	0.817	0.713	0.721
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	06:03:45	402055.760	298.441	693.767	698.455	606.263	1398.506	361235.160	31802.547	
2	06:04:53	397994.380	176.564	468.758	639.077	601.575	1382.879	360418.030	32029.616	
3	06:06:01	398991.950	185.939	414.069	706.267	596.887	1484.452	358375.410	32234.764	
x		399680.700	220.314	525.531	681.266	601.575	1421.946	360009.530	32022.309	
σ		2116.479	67.822	148.240	36.745	4.688	54.693	1472.989	216.201	
%RSD		0.530	30.784	28.208	5.394	0.779	3.846	0.409	0.675	

C4464-05 MH3BA5 11/17/2011 06:10:30 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	06:11:38	9167.003	32.292	1687.600	2415.829	189991060.000	6064554.200	888908.590	1094073.200	220356.800
2	06:12:46	9184.201	29.167	1712.603	2451.773	193908290.000	6189803.500	903014.260	1108165.300	222410.130
3	06:13:54	9465.635	27.604	1757.921	2318.938	191052870.000	6075311.300	888503.260	1085981.600	219723.730
x		9272.280	29.688	1719.374	2395.513	191650740.000	6109889.700	893475.370	1096073.400	220830.220
σ		167.671	2.387	35.646	68.708	2025896.400	69416.054	8263.407	11226.296	1404.382
%RSD		1.808	8.040	2.073	2.868	1.057	1.136	0.925	1.024	0.636
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	06:11:38	900139.510	37192.101	357065.080	1017338.100	6949980.200	60683.301	1006528.400	68108.847	19253.591
2	06:12:46	921008.730	38586.417	365242.960	1043902.500	7059562.300	61477.310	1024768.600	67852.947	19286.448
3	06:13:54	901496.180	37210.900	353933.900	1032890.500	6892757.100	60967.318	1003114.400	67901.614	18777.958
x		907548.140	37663.139	358747.310	1031377.000	6967433.200	61042.643	1011470.500	67954.469	19105.999
σ		11676.929	799.637	5839.193	13346.714	84761.149	402.328	11642.305	135.892	284.566
%RSD		1.287	2.123	1.628	1.294	1.217	0.659	1.151	0.200	1.489
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	06:11:38	144805.200	20078.162	19616.584	259638.170	3812037.500	4372575.700	117044.710	2257.991	3466.045
2	06:12:46	148344.360	19974.893	20549.144	264639.640	3854751.800	4412376.400	117522.040	2275.181	3370.710
3	06:13:54	148603.280	19478.896	20879.309	258370.180	3793409.400	4337355.100	114875.650	2159.538	3394.153
x		147250.950	19843.984	20348.346	260882.660	3820066.200	4374102.400	116480.800	2230.903	3410.303
σ		2122.032	320.364	654.873	3314.829	31449.470	37533.935	1410.442	62.399	49.677
%RSD		1.441	1.614	3.218	1.271	0.823	0.858	1.211	2.797	1.457
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	06:11:38	1801.676	729.706	1415.695	12242.222	229.689	229.689	255.211	31.250	20.313
2	06:12:46	1829.805	748.457	1453.199	12433.012	226.564	226.564	236.460	30.729	16.667
3	06:13:54	1673.536	685.954	1479.764	12262.031	256.252	256.252	228.648	30.208	13.021
x		1768.339	721.372	1449.553	12312.422	237.502	237.502	240.106	30.729	16.667
σ		83.298	32.074	32.190	104.903	16.313	16.313	13.652	0.521	3.646
%RSD		4.711	4.446	2.221	0.852	6.869	6.869	5.686	1.695	21.875
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	06:11:38	11154.353	532.822	2431.457	343.754	776.584	3.125	148208.590	334.379	146.876
2	06:12:46	11521.832	492.196	2529.912	323.441	765.646	1.563	149386.380	367.192	120.313
3	06:13:54	11465.537	498.446	2454.898	290.628	750.020	0.000	149909.000	287.503	98.438
x		11380.574	507.822	2472.089	319.274	764.083	1.563	149167.990	329.691	121.876
σ		197.925	21.876	51.429	26.807	13.351	1.563	870.991	40.051	24.257
%RSD		1.739	4.308	2.080	8.396	1.747	100.000	0.584	12.148	19.903
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	06:11:38	84.375	84.375	101.563	17.188	665.641	2708.069	14579.311	25746.618	365552.290
2	06:12:46	100.000	100.000	96.875	12.500	629.701	2779.958	14519.875	26054.989	365387.210
3	06:13:54	84.375	84.375	82.813	6.250	573.449	2770.581	14147.627	25383.469	371627.940
x		89.584	89.584	93.750	11.979	622.930	2752.869	14415.604	25728.358	367522.480
σ		9.021	9.021	9.758	5.487	46.467	39.080	233.970	336.132	3556.392
%RSD		10.070	10.070	10.408	45.807	7.459	1.420	1.623	1.306	0.968
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	06:11:38	384679.180	128.126	290.628	1571.962	1468.826	3589.513	347596.740	29940.718	
2	06:12:46	383599.150	112.500	239.065	1636.031	1467.263	3550.441	349703.480	30164.626	
3	06:13:54	388789.800	60.938	159.376	1661.034	1403.194	3620.771	354619.340	29851.469	
x		385689.380	100.521	229.689	1623.009	1446.427	3586.909	350639.850	29985.604	
σ		2738.812	35.159	66.126	45.942	37.449	35.237	3603.720	161.332	
%RSD		0.710	34.977	28.789	2.831	2.589	0.982	1.028	0.538	

C4464-09 MH3BA7 11/17/2011 06:18:23 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	06:19:31	9270.194	13.021	1206.301	4235.003	133465480.000	4221065.800	618627.830	763876.920	73235.679
2	06:20:39	8919.971	12.500	1248.492	4319.403	133504210.000	4207523.000	618914.870	763507.960	73438.277
3	06:21:47	9079.447	16.146	1232.866	4364.729	134791850.000	4260879.800	625320.930	767619.750	73965.989
x		9089.871	13.889	1229.220	4306.378	133920520.000	4229822.800	620954.540	765001.540	73546.649
σ		175.344	1.972	21.331	65.837	754848.870	27735.397	3784.122	2274.931	377.023
%RSD		1.929	14.197	1.735	1.529	0.564	0.656	0.609	0.297	0.513
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	06:19:31	1038115.200	24372.335	45113.308	454962.370	3747367.800	37317.427	620063.090	67659.846	5415.089
2	06:20:39	1034440.600	24261.209	44834.306	460878.810	3745424.600	37427.088	614300.080	67626.878	5182.190
3	06:21:47	1043932.700	24502.245	45130.549	465329.010	3762648.300	37229.699	620806.870	67199.870	5416.652
x		1038829.500	24378.596	45026.054	460390.060	3751813.600	37324.738	618390.010	67495.532	5337.977
σ		4786.172	120.640	166.282	5200.573	9433.294	98.898	3561.457	256.580	134.918
%RSD		0.461	0.495	0.369	1.130	0.251	0.265	0.576	0.380	2.528
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	06:19:31	57758.714	6857.896	12306.861	283137.690	3395986.900	4754083.500	123951.040	1754.795	1865.747
2	06:20:39	59398.229	6767.228	12591.484	283971.170	3407459.800	4753547.800	123899.030	1692.288	1982.950
3	06:21:47	60154.509	6845.390	12794.790	286228.050	3428504.700	4797700.800	125041.730	1793.863	2001.703
x		59103.817	6823.504	12564.378	284445.640	3410650.500	4768444.000	124297.260	1746.982	1950.133
σ		1224.731	49.137	245.091	1598.882	16492.002	25338.533	645.251	51.236	73.680
%RSD		2.072	0.720	1.951	0.562	0.484	0.531	0.519	2.933	3.778
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	06:19:31	1618.842	712.518	781.271	11493.163	157.813	157.813	213.022	16.667	11.458
2	06:20:39	1673.536	750.020	817.211	11345.649	159.376	159.376	217.710	23.958	13.021
3	06:21:47	1692.288	689.079	793.772	11475.962	142.188	142.188	225.002	19.792	9.896
x		1661.555	717.206	797.418	11438.258	153.126	153.126	218.578	20.139	11.458
σ		38.161	30.740	18.245	80.661	9.504	9.504	6.037	3.658	1.563
%RSD		2.297	4.286	2.288	0.705	6.207	6.207	2.762	18.165	13.636
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	06:19:31	6507.732	959.407	1976.699	548.448	1521.956	3.125	151094.830	201.564	95.313
2	06:20:39	6601.525	896.903	2090.778	617.201	1525.081	0.000	151983.880	218.752	98.438
3	06:21:47	6898.540	923.467	2175.166	625.014	1509.455	0.000	150371.640	242.190	98.438
x		6669.266	926.593	2080.881	596.888	1518.831	1.042	151150.120	220.835	97.396
σ		204.021	31.369	99.603	42.131	8.269	1.804	807.540	20.393	1.804
%RSD		3.059	3.385	4.787	7.059	0.544	173.205	0.534	9.234	1.852
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	06:19:31	32.813	32.813	70.313	20.313	175.001	765.646	22538.077	40049.811	363282.990
2	06:20:39	54.688	54.688	45.313	23.438	173.439	700.017	22483.304	39960.499	366815.300
3	06:21:47	57.813	57.813	40.625	7.813	215.627	643.765	22827.599	40325.585	365175.650
x		48.438	48.438	52.083	17.188	188.022	703.142	22616.327	40111.965	365091.310
σ		13.622	13.622	15.960	8.268	23.919	61.001	185.006	190.314	1767.666
%RSD		28.122	28.122	30.643	48.105	12.721	8.675	0.818	0.474	0.484
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	06:19:31	385768.920	59.375	206.251	4367.855	3661.407	9409.348	352108.360	6498.353	
2	06:20:39	385768.920	43.750	120.313	4286.581	3677.036	9199.836	354566.490	6476.468	
3	06:21:47	386073.870	43.750	96.875	4530.406	3623.897	9263.940	350829.020	6226.357	
x		385870.570	48.958	141.147	4394.947	3654.113	9291.041	352501.290	6400.392	
σ		176.062	9.021	57.587	124.150	27.310	107.353	1899.463	151.116	
%RSD		0.046	18.426	40.800	2.825	0.747	1.155	0.539	2.361	

C4464-10 MH3BA8 11/17/2011 06:26:17 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	06:27:24	8982.511	10.938	2072.025	1293.809	105329230.000	3008537.600	438583.790	536452.330	59060.897
2	06:28:33	8880.885	12.500	2022.018	1192.237	105940700.000	3023012.500	440115.780	539791.850	58379.982
3	06:29:41	9260.813	13.542	2123.595	1237.554	106282440.000	3038816.000	443246.310	545311.270	58640.420
x		9041.403	12.326	2072.546	1241.200	105850790.000	3023455.400	440648.630	540518.480	58693.767
σ		196.692	1.311	50.791	50.884	482926.350	15144.048	2376.490	4473.946	343.578
%RSD		2.175	10.634	2.451	4.100	0.456	0.501	0.539	0.828	0.585
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	06:27:24	1004333.300	12214.595	226377.980	469444.810	5750249.800	36280.386	603911.530	66270.544	2976.873
2	06:28:33	996312.290	12582.101	227001.830	474692.130	5764190.500	36357.143	606559.310	66414.963	3026.883
3	06:29:41	1009624.900	12364.724	229419.680	479815.340	5779326.000	36628.147	613864.760	67524.835	2958.119
x		1003423.500	12387.140	227599.830	474650.760	5764588.800	36421.892	608111.870	66736.781	2987.292
σ		6702.788	184.776	1606.608	5185.387	14542.218	182.698	5155.049	686.284	35.546
%RSD		0.668	1.492	0.706	1.092	0.252	0.502	0.848	1.028	1.190
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	06:27:24	52088.540	3362.896	10572.661	275455.290	2811020.700	4628682.000	120422.610	1026.599	957.845
2	06:28:33	51550.656	3161.287	10405.351	277855.800	2822412.100	4650966.000	120818.120	1076.603	948.469
3	06:29:41	51765.494	3262.873	10591.425	279380.420	2841216.700	4655947.800	121007.210	1021.912	959.407
x		51801.563	3262.352	10523.145	277563.830	2824883.100	4645198.600	120749.310	1041.705	955.240
σ		270.750	100.805	102.444	1978.784	15248.917	14519.098	298.310	30.314	5.916
%RSD		0.523	3.090	0.974	0.713	0.540	0.313	0.247	2.910	0.619
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	06:27:24	4913.345	2145.474	400.006	8035.593	137.501	137.501	205.731	17.188	16.667
2	06:28:33	4953.984	2409.578	484.383	7941.790	150.001	150.001	202.606	16.667	19.271
3	06:29:41	4910.219	2237.675	485.946	8106.987	109.375	109.375	193.751	19.792	17.188
x		4925.849	2264.242	456.778	8028.123	132.292	132.292	200.696	17.882	17.708
σ		24.415	134.042	49.173	82.851	20.807	20.807	6.214	1.674	1.378
%RSD		0.496	5.920	10.765	1.032	15.728	15.728	3.096	9.363	7.782
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	06:27:24	4818.000	1329.749	2028.269	803.148	1978.262	1.563	149099.030	187.501	112.500
2	06:28:33	4843.008	1282.870	2117.344	798.460	2086.090	0.000	149994.260	164.063	100.000
3	06:29:41	5086.843	1245.367	2078.276	793.772	2093.903	0.000	150690.600	178.126	67.188
x		4915.950	1285.995	2074.630	798.460	2052.752	0.521	149927.960	176.564	93.229
σ		148.525	42.278	44.650	4.688	64.628	0.902	797.853	11.797	23.403
%RSD		3.021	3.288	2.152	0.587	3.148	173.205	0.532	6.681	25.102
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	06:27:24	31.250	31.250	85.938	25.000	125.001	601.575	16170.084	28479.923	359346.220
2	06:28:33	31.250	31.250	65.625	10.938	167.188	553.136	15955.781	28130.795	360387.590
3	06:29:41	34.375	34.375	70.313	12.500	153.126	535.948	16080.921	28750.777	364726.900
x		32.292	32.292	73.959	16.146	148.438	563.553	16068.928	28453.832	361486.900
σ		1.804	1.804	10.636	7.708	21.481	34.031	107.654	310.814	2853.825
%RSD		5.587	5.587	14.381	2.369	14.471	6.039	0.670	1.092	0.789
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	06:27:24	378865.950	71.875	157.813	7914.692	6889.161	17512.290	354359.890	2164.226	
2	06:28:33	378933.320	35.938	121.876	8297.722	7061.120	17468.486	355514.620	2086.090	
3	06:29:41	384611.770	28.125	90.625	8085.100	6889.161	17351.156	355794.910	1965.760	
x		380803.680	45.313	123.438	8099.171	6946.480	17443.977	355223.140	2072.026	
σ		3298.077	23.333	33.621	191.902	99.281	83.316	760.616	99.978	
%RSD		0.866	51.494	27.237	2.369	1.429	0.478	0.214	4.825	

C4464-11 MH3BA9 11/17/2011 06:34:11 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	06:35:19	9129.479	23.438	1739.168	1814.178	118904140.000	3601108.900	524226.420	643788.110	87496.819
2	06:36:27	9099.772	16.667	1800.113	1932.943	119707280.000	3604494.600	525530.870	646640.840	87510.967
3	06:37:35	9262.377	15.625	1715.728	1762.609	120876760.000	3629501.600	530404.550	646106.530	88224.712
x		9163.876	18.576	1751.670	1836.577	119829390.000	3611701.700	526720.610	645511.830	87744.166
σ		86.588	4.242	43.560	87.348	991963.380	15507.829	3256.372	1516.499	416.225
%RSD		0.945	22.835	2.487	4.756	0.828	0.429	0.618	0.235	0.474
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	06:35:19	737222.010	12566.462	250551.500	470962.300	5566800.200	43672.904	716790.960	65663.061	2475.214
2	06:36:27	742921.830	12661.859	253280.240	474294.880	5593993.600	43721.490	718762.990	67210.859	2558.042
3	06:37:35	743336.330	12965.256	252610.730	478484.290	5600052.600	43365.721	723534.080	66727.351	2479.903
x		741160.050	12731.192	252147.490	474580.490	5586948.800	43586.705	719696.010	66533.757	2504.386
σ		3416.737	208.241	1422.128	3769.120	17710.234	192.914	3467.032	791.851	46.526
%RSD		0.461	1.636	0.564	0.794	0.317	0.443	0.482	1.190	1.858
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	06:35:19	46649.479	2564.293	9118.534	167882.260	2648214.700	2814297.200	76400.627	521.885	934.406
2	06:36:27	47177.773	2536.163	9157.622	166966.930	2637515.800	2798293.900	75951.366	531.260	1023.474
3	06:37:35	47633.970	2565.855	9188.892	167112.370	2649857.600	2815114.100	76188.562	543.760	1025.037
x		47153.741	2555.437	9155.016	167320.520	2645196.000	2809235.000	76180.185	532.302	994.306
σ		492.685	16.710	35.251	491.882	6701.823	9484.124	224.748	10.975	51.881
%RSD		1.045	0.654	0.385	0.294	0.253	0.338	0.295	2.062	5.218
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	06:35:19	2422.080	1060.977	620.326	5299.420	100.000	100.000	236.460	17.188	12.500
2	06:36:27	2282.995	1021.912	589.075	5427.072	104.688	104.688	233.856	15.104	17.708
3	06:37:35	2495.530	951.594	592.200	5503.143	135.938	135.938	222.918	15.625	14.583
x		2400.202	1011.494	600.533	5409.879	113.542	113.542	231.078	15.972	14.931
σ		107.944	55.430	17.212	102.944	19.537	19.537	7.186	1.084	2.621
%RSD		4.497	5.480	2.866	1.903	17.206	17.206	3.110	6.788	17.558
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	06:35:19	2676.813	217.189	585.950	118.750	303.128	0.000	148693.270	140.626	65.625
2	06:36:27	2625.241	153.126	579.699	114.063	315.628	0.000	150071.630	167.188	62.500
3	06:37:35	2769.018	210.939	604.700	115.625	303.128	1.563	148484.870	120.313	53.125
x		2690.358	193.751	590.116	116.146	307.295	0.521	149083.260	142.709	60.417
σ		72.839	35.321	13.011	2.387	7.217	0.902	862.278	23.507	6.505
%RSD		2.707	18.230	2.205	2.055	2.349	173.205	0.578	16.472	10.767
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	06:35:19	26.563	26.563	53.125	10.938	148.438	1010.973	16382.826	30249.179	361068.520
2	06:36:27	20.313	20.313	39.063	9.375	154.688	862.526	16809.884	29489.781	364258.940
3	06:37:35	15.625	15.625	26.563	12.500	117.188	856.276	16539.256	30166.191	362313.520
x		20.833	20.833	39.583	10.938	140.105	909.925	16577.322	29968.384	362546.990
σ		5.487	5.487	13.289	1.563	20.091	87.566	216.059	416.554	1607.970
%RSD		26.339	26.339	33.572	14.286	14.340	9.623	1.303	1.390	0.444
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	06:35:19	380566.510	65.625	145.313	1614.154	1443.823	3642.652	350073.320	10424.114	
2	06:36:27	385669.410	40.625	125.001	1734.480	1421.946	3703.605	354126.070	10350.623	
3	06:37:35	380125.310	45.313	71.875	1743.856	1442.260	3717.671	353469.490	10508.551	
x		382120.410	50.521	114.063	1697.497	1436.010	3687.976	352556.290	10427.763	
σ		3081.430	13.289	37.921	72.329	12.205	39.877	2175.237	79.027	
%RSD		0.806	26.304	33.246	4.261	0.850	1.081	0.617	0.758	

C4464-04X25 MH3BA4

11/17/2011 06:42:06 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	06:43:14	9661.078	14.063	112.500	484.383	8062871.300	1295149.500	186862.610	231066.210	13162.311
2	06:44:21	9376.514	9.375	95.313	501.571	8122394.400	1296571.800	187878.940	231688.670	12949.617
3	06:45:29	9390.585	7.813	92.188	467.195	8209447.200	1313034.600	189264.230	234974.510	13124.776
x		9476.059	10.417	100.000	484.383	8131571.000	1301585.300	188001.930	232576.460	13078.901
σ		160.386	3.253	10.938	17.188	73717.584	9940.874	1205.524	2099.955	113.526
%RSD		1.693	31.225	10.938	3.548	0.907	0.764	0.641	0.903	0.868
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	06:43:14	46879.919	2479.903	18330.503	189875.390	545139.260	9262.377	154899.320	69047.713	92.188
2	06:44:21	47431.736	2434.582	18485.390	188773.430	541482.170	9326.481	154344.930	68697.594	114.063
3	06:45:29	47312.592	2431.457	18732.586	189751.890	549582.880	9204.527	155137.820	68116.697	76.563
x		47208.083	2448.647	18516.160	189466.900	545401.440	9264.462	154794.020	68620.668	94.271
σ		290.374	27.113	202.800	603.732	4056.711	61.004	406.799	470.251	18.837
%RSD		0.615	1.107	1.095	0.319	0.744	0.658	0.263	0.685	19.981
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	06:43:14	14792.029	765.646	4739.849	35624.050	309614.480	609668.810	17166.558	107.813	146.876
2	06:44:21	14022.504	764.083	4688.269	35656.944	309655.990	607116.620	16872.458	109.375	131.251
3	06:45:29	14411.953	851.588	4660.135	35968.662	314040.790	614728.880	17216.618	104.688	131.251
x		14408.829	793.772	4696.084	35749.885	311103.760	610504.770	17085.211	107.292	136.459
σ		384.772	50.076	40.427	190.179	2543.632	3874.370	185.942	2.387	9.021
%RSD		2.670	6.309	0.861	0.532	0.818	0.635	1.088	2.225	6.611
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	06:43:14	245.315	78.125	106.250	377.088	51.563	51.563	231.252	15.104	11.979
2	06:44:21	232.814	70.313	87.500	319.795	60.938	60.938	243.231	13.542	17.188
3	06:45:29	209.377	82.813	117.188	359.900	57.813	57.813	247.919	15.104	14.583
x		229.169	77.084	103.646	352.261	56.771	56.771	240.801	14.583	14.583
σ		18.244	6.315	15.014	29.401	4.774	4.774	8.595	0.902	2.604
%RSD		7.961	8.192	14.486	8.346	8.408	8.408	3.569	6.186	17.857
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	06:43:14	260.940	71.875	92.188	40.625	128.126	3.125	162474.960	110.938	10.938
2	06:44:21	231.252	50.000	107.813	31.250	81.250	1.563	160597.660	118.750	6.250
3	06:45:29	226.564	39.063	81.250	34.375	95.313	1.563	160425.430	118.750	6.250
x		239.585	53.646	93.750	35.417	101.563	2.083	161166.020	116.146	7.813
σ		18.641	16.707	13.350	4.774	24.055	0.902	1136.844	4.511	2.706
%RSD		7.781	31.144	14.240	13.478	23.684	43.301	0.705	3.884	34.641
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	06:43:14	3.125	3.125	10.938	0.000	39.063	154.688	15972.987	28313.969	377672.460
2	06:44:21	0.000	0.000	10.938	0.000	40.625	92.188	15697.682	27830.207	375600.140
3	06:45:29	1.563	1.563	10.938	3.125	35.938	67.188	15952.652	28169.934	372904.310
x		1.563	1.563	10.938	1.042	38.542	104.688	15874.441	28104.703	375392.300
σ		1.563	1.563	0.000	1.804	2.387	45.070	153.414	248.390	2390.858
%RSD		100.000	100.000	0.000	173.205	6.193	43.052	0.966	0.884	0.637
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	06:43:14	395707.140	23.438	65.625	193.751	167.188	379.693	378023.760	1367.253	
2	06:44:21	396508.600	29.688	46.875	150.001	181.251	354.692	376653.900	1310.998	
3	06:45:29	389754.630	34.375	85.938	142.188	206.251	353.129	374987.480	1336.000	
x		393990.120	29.167	66.146	161.980	184.897	362.505	376555.050	1338.084	
σ		3689.872	5.487	19.537	27.791	19.785	14.906	1520.552	28.185	
%RSD		0.937	18.814	29.535	17.157	10.701	4.112	0.404	2.106	

C4464-05X25 MH3BA5

11/17/2011 06:50:01 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	06:51:08	9360.878	9.896	82.813	442.194	7819961.100	251882.410	36405.704	44597.630	21298.678
2	06:52:17	9346.807	8.854	98.438	431.257	7884547.700	254469.850	36977.482	44914.244	21173.492
3	06:53:25	9415.602	10.938	85.938	395.318	7766937.000	249969.560	36053.249	44639.949	20838.625
x		9374.429	9.896	89.063	422.923	7823815.300	252107.270	36478.812	44717.274	21103.598
σ		36.344	1.042	8.268	24.524	58900.030	2258.556	466.433	171.888	237.857
%RSD		0.388	10.526	9.283	5.799	0.753	0.896	1.279	0.384	1.127
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	06:51:08	36264.721	2339.254	30856.726	191449.310	475509.260	2537.725	41237.558	66356.881	862.526
2	06:52:17	37702.812	2375.197	31462.734	192912.550	476998.320	2461.150	42312.570	65578.298	820.336
3	06:53:25	36167.600	2443.959	30501.277	192291.760	474504.810	2556.479	41608.945	66303.509	820.336
x		36711.711	2386.137	30940.246	192217.870	475670.800	2518.451	41719.691	66079.563	834.399
σ		859.691	53.203	486.139	734.412	1254.579	50.503	545.995	434.927	24.358
%RSD		2.342	2.230	1.571	0.382	0.264	2.005	1.309	0.658	2.919
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	06:51:08	17052.359	1317.248	4657.009	14103.834	156249.840	238852.080	7355.018	142.188	218.752
2	06:52:17	17071.131	1411.007	4549.162	14433.851	156660.550	238478.730	7276.853	132.813	203.126
3	06:53:25	16461.041	1307.872	4697.647	14097.578	154834.560	236022.830	7306.556	135.938	179.689
x		16861.510	1345.376	4634.606	14211.754	155914.990	237784.550	7312.809	136.980	200.522
σ		346.944	57.031	76.736	192.367	957.947	1537.074	39.456	4.774	19.661
%RSD		2.058	4.239	1.656	1.354	0.614	0.646	0.540	3.485	9.805
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	06:51:08	243.752	103.125	160.938	652.619	60.938	60.938	230.210	16.146	10.938
2	06:52:17	228.127	92.188	146.876	656.265	48.438	48.438	236.460	20.313	16.146
3	06:53:25	260.940	90.625	171.876	623.451	57.813	57.813	210.418	11.458	12.500
x		244.273	95.313	159.897	644.112	55.729	55.729	225.696	15.972	13.194
σ		16.413	6.811	12.533	17.985	6.505	6.505	13.595	4.430	2.673
%RSD		6.719	7.146	7.838	2.792	11.673	11.673	6.024	27.733	20.256
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	06:51:08	467.195	50.000	151.563	34.375	98.438	1.563	157282.960	123.438	25.000
2	06:52:17	460.945	43.750	140.626	32.813	107.813	0.000	155715.940	109.375	12.500
3	06:53:25	476.570	39.063	129.688	39.063	82.813	0.000	158167.650	106.250	37.500
x		468.237	44.271	140.626	35.417	96.354	0.521	157055.520	113.021	25.000
σ		7.865	5.487	10.938	3.253	12.630	0.902	1241.581	9.155	12.500
%RSD		1.680	12.395	7.778	9.184	13.107	173.205	0.791	8.101	50.000
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	06:51:08	3.125	3.125	17.188	4.688	84.375	265.627	623.451	1067.227	365605.180
2	06:52:17	3.125	3.125	20.313	7.813	71.875	198.439	609.388	1067.227	364725.300
3	06:53:25	4.688	4.688	34.375	4.688	68.750	187.501	628.139	1093.792	369011.410
x		3.646	3.646	23.958	5.729	75.000	217.189	620.326	1076.082	366447.300
σ		0.902	0.902	9.155	1.804	8.268	42.304	9.758	15.337	2263.749
%RSD		24.744	24.744	38.214	31.492	11.024	19.478	1.573	1.425	0.618
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	06:51:08	384549.180	54.688	142.188	185.939	210.939	509.384	368211.480	1285.995	
2	06:52:17	382098.800	26.563	103.125	178.126	165.626	450.007	366069.980	1267.244	
3	06:53:25	387195.810	70.313	140.626	237.502	195.314	493.759	371554.180	1178.174	
x		384614.600	50.521	128.646	200.522	190.626	484.383	368611.880	1243.804	
σ		2549.138	22.171	22.116	32.263	23.017	30.779	2763.940	57.606	
%RSD		0.663	43.884	17.191	16.089	12.075	6.354	0.750	4.631	

C4464-09X25 MH3BA7

11/17/2011 06:57:56 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	06:59:04	9079.447	11.458	57.813	545.323	5622629.900	178876.990	25546.258	31641.252	14735.721
2	07:00:12	8966.876	11.458	65.625	468.758	5477076.600	174939.620	25057.895	30499.711	15150.217
3	07:01:20	9124.788	14.063	81.250	479.696	5542833.200	175662.470	25627.654	31429.849	15140.832
x		9057.037	12.326	68.229	497.925	5547513.200	176493.020	25410.602	31190.271	15008.923
σ		81.306	1.504	11.934	41.410	72889.468	2095.970	308.153	607.312	236.647
%RSD		0.898	12.198	17.491	8.317	1.314	1.188	1.213	1.947	1.577
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	06:59:04	42930.033	1753.233	19119.035	168671.150	343777.860	1604.778	26299.185	65570.450	228.127
2	07:00:12	41068.322	1906.377	18691.908	170717.120	339929.590	1584.463	25123.635	67375.696	228.127
3	07:01:20	41851.841	1812.615	18950.060	169505.950	342548.860	1620.404	25693.397	65955.027	260.940
x		41950.065	1824.075	18920.335	169631.410	342085.430	1603.215	25705.406	66300.391	239.065
σ		934.734	77.213	215.110	1028.735	1965.547	18.022	587.867	950.887	18.945
%RSD		2.228	4.233	1.137	0.606	0.575	1.124	2.287	1.434	7.924
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	06:59:04	12039.446	839.087	3766.121	15075.137	140711.470	255586.400	7497.279	120.313	156.251
2	07:00:12	11581.255	862.526	3664.532	15356.687	137111.090	251267.030	7462.886	106.250	132.813
3	07:01:20	11453.027	798.460	3556.693	15398.920	139379.760	253118.030	7450.380	117.188	181.251
x		11691.243	833.358	3662.449	15276.915	139067.440	253323.820	7470.182	114.584	156.772
σ		308.293	32.415	104.730	176.016	1820.397	2167.025	24.286	7.384	24.223
%RSD		2.637	3.890	2.860	1.152	1.309	0.855	0.325	6.444	15.451
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	06:59:04	265.627	82.813	153.126	572.928	46.875	46.875	227.085	11.458	9.375
2	07:00:12	259.377	87.500	159.376	555.219	31.250	31.250	218.231	14.583	14.063
3	07:01:20	206.251	78.125	184.376	584.908	37.500	37.500	222.398	13.021	10.938
x		243.752	82.813	165.626	571.018	38.542	38.542	222.571	13.021	11.458
σ		32.626	4.688	16.536	14.936	7.864	7.864	4.430	1.563	2.387
%RSD		13.385	5.660	9.984	2.616	20.405	20.405	1.990	12.000	20.830
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	06:59:04	331.254	85.938	121.876	48.438	107.813	0.000	155170.990	104.688	25.000
2	07:00:12	285.940	48.438	126.563	40.625	117.188	0.000	158458.340	106.250	18.750
3	07:01:20	295.316	87.500	134.376	39.063	128.126	0.000	156840.640	110.938	32.813
x		304.170	73.959	127.605	42.708	117.709	0.000	156823.330	107.292	25.521
σ		23.919	22.116	6.315	5.023	10.166	0.000	1643.745	3.253	7.046
%RSD		7.864	29.903	4.949	11.761	8.637	0.000	1.048	3.032	27.608
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	06:59:04	3.125	3.125	15.625	3.125	62.500	203.126	895.341	1670.410	361239.960
2	07:00:12	3.125	3.125	18.750	9.375	56.250	98.438	920.342	1579.775	371002.620
3	07:01:20	1.563	1.563	32.813	14.063	45.313	117.188	970.345	1589.151	364778.190
x		2.604	2.604	22.396	8.854	54.688	139.584	928.676	1613.112	365673.590
σ		0.902	0.902	9.155	5.487	8.700	55.822	38.191	49.843	4942.540
%RSD		34.641	34.641	40.880	61.974	15.908	39.992	4.112	3.090	1.352
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	06:59:04	381931.920	57.813	112.500	307.816	240.627	748.457	365824.760	367.192	
2	07:00:12	389317.960	60.938	134.376	317.191	254.690	682.829	375442.960	354.692	
3	07:01:20	383140.200	54.688	143.751	317.191	246.877	671.891	371358.570	409.381	
x		384796.690	57.813	130.209	314.066	247.398	701.059	370875.430	377.088	
σ		3961.863	3.125	16.036	5.413	7.046	41.411	4827.269	28.656	
%RSD		1.030	5.405	12.316	1.723	2.848	5.907	1.302	7.599	

C4464-10X25 MH3BA8

11/17/2011 07:05:52 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	07:07:00	9116.971	13.542	92.188	357.817	4503951.300	128022.650	18505.728	22514.603	14491.722
2	07:08:07	9088.828	13.542	98.438	387.505	4455381.000	125869.260	18524.503	22173.445	14413.518
3	07:09:15	9213.908	10.417	96.875	395.318	4437349.100	127401.510	18468.180	22466.089	14230.522
x		9139.902	12.500	95.834	380.213	4465560.500	127097.810	18499.470	22384.712	14378.587
σ		65.617	1.804	3.253	19.785	34448.196	1108.351	28.678	184.564	134.058
%RSD		0.718	14.434	3.394	5.204	0.771	0.872	0.155	0.825	0.932
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	07:07:00	41187.414	1364.128	25907.846	166840.470	426887.380	1571.962	26277.270	64790.340	181.251
2	07:08:07	40720.453	1475.076	26045.596	167008.040	426610.540	1512.580	25771.663	65889.098	159.376
3	07:09:15	41400.528	1361.002	25801.404	166707.680	426505.920	1556.335	25950.110	65940.899	184.376
x		41102.798	1400.069	25918.282	166852.060	426667.950	1546.959	25999.681	65540.113	175.001
σ		347.844	64.977	122.430	150.512	197.101	30.781	256.423	649.838	13.622
%RSD		0.846	4.641	0.472	0.090	0.046	1.990	0.986	0.992	7.784
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	07:07:00	10847.867	607.825	3131.593	15228.425	118177.420	252784.070	7612.966	93.750	118.750
2	07:08:07	10525.751	673.453	3158.162	14582.439	116447.680	248540.260	7525.419	70.313	120.313
3	07:09:15	10424.114	653.140	3187.856	14806.106	116913.960	250029.980	7541.052	85.938	85.938
x		10599.244	644.806	3159.204	14872.323	117179.680	250451.440	7559.812	83.334	108.334
σ		221.230	33.598	28.146	328.044	894.963	2153.066	46.691	11.934	19.411
%RSD		2.087	5.211	0.891	2.206	0.764	0.860	0.618	14.321	17.918
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	07:07:00	346.879	132.813	221.877	453.132	51.563	51.563	209.377	12.500	15.625
2	07:08:07	328.129	139.063	232.814	398.964	51.563	51.563	206.251	10.938	16.146
3	07:09:15	395.318	140.626	229.689	461.466	34.375	34.375	231.252	12.500	13.542
x		356.775	137.501	228.127	437.854	45.833	45.833	215.627	11.979	15.104
σ		34.671	4.134	5.634	33.937	9.923	9.923	13.622	0.902	1.378
%RSD		9.718	3.007	2.470	7.751	21.651	21.651	6.317	7.531	9.123
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	07:07:00	218.752	104.688	115.625	56.250	145.313	0.000	154547.100	103.125	20.313
2	07:08:07	237.502	78.125	109.375	39.063	142.188	0.000	155856.520	128.126	17.188
3	07:09:15	164.063	70.313	114.063	46.875	153.126	1.563	156452.040	109.375	17.188
x		206.772	84.375	113.021	47.396	146.876	0.521	155618.550	113.542	18.229
σ		38.157	18.020	3.253	8.606	5.634	0.902	974.512	13.011	1.804
%RSD		18.453	21.357	2.878	18.157	3.836	173.205	0.626	11.459	9.897
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	07:07:00	1.563	1.563	14.063	4.688	59.375	143.751	668.766	1200.050	359073.870
2	07:08:07	0.000	0.000	20.313	1.563	54.688	89.063	701.580	1196.925	364829.470
3	07:09:15	3.125	3.125	15.625	4.688	39.063	96.875	650.015	1190.675	364345.480
x		1.563	1.563	16.667	3.646	51.042	109.896	673.453	1195.883	362749.610
σ		1.563	1.563	3.253	1.804	10.636	29.578	26.100	4.774	3192.467
%RSD		100.000	100.000	19.516	49.487	20.837	26.914	3.876	0.399	0.880
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	07:07:00	377977.240	62.500	103.125	453.132	392.193	1046.913	367208.010	192.189	
2	07:08:07	385019.410	65.625	78.125	456.257	343.754	1003.160	370005.380	131.251	
3	07:09:15	383151.430	40.625	139.063	476.570	381.255	995.347	372490.600	129.688	
x		382049.360	56.250	106.771	461.987	372.401	1015.140	369901.330	151.042	
σ		3648.146	13.622	30.632	12.726	25.404	27.792	2642.832	35.642	
%RSD		0.955	24.216	28.690	2.755	6.822	2.738	0.714	23.598	

## C4464-11X25 MH3BA9 11/17/2011 07:13:47 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	07:14:55	9213.908	10.417	90.625	367.192	4923651.200	148873.260	21201.659	26211.525	15389.535
2	07:16:03	8823.036	9.896	95.313	418.756	4910456.600	148342.780	21361.271	26029.943	15686.733
3	07:17:11	8846.488	10.417	92.188	426.569	4944416.400	148527.500	21267.381	26389.978	15849.412
x		8961.144	10.243	92.709	404.172	4926174.700	148581.180	21276.770	26210.482	15641.893
σ		219.214	0.301	2.387	32.263	17119.984	269.281	80.219	180.020	233.195
%RSD		2.446	2.936	2.574	7.983	0.348	0.181	0.377	0.687	1.491
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	07:14:55	28747.646	1336.000	26585.652	166562.250	413695.160	1767.297	29007.545	65327.152	106.250
2	07:16:03	30385.405	1264.118	26822.031	166328.300	412680.500	1745.419	29475.690	65300.467	118.750
3	07:17:11	29837.377	1426.634	26632.615	166173.390	415203.610	1753.233	29749.694	64736.974	140.626
x		29656.809	1342.251	26680.099	166354.650	413859.760	1755.316	29410.977	65121.531	121.876
σ		833.677	81.438	125.139	195.766	1269.584	11.087	375.283	333.303	17.399
%RSD		2.811	6.067	0.469	0.118	0.307	0.632	1.276	0.512	14.276
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	07:14:55	9482.834	576.574	3133.156	10416.296	107597.430	167597.690	5499.496	60.938	104.688
2	07:16:03	9290.520	593.762	2925.300	10069.172	106818.180	168843.480	5513.564	53.125	82.813
3	07:17:11	9736.129	603.138	2789.335	10450.696	107509.270	169278.270	5416.652	64.063	110.938
x		9503.161	591.158	2949.263	10312.055	107308.290	168573.150	5476.570	59.375	99.480
σ		223.499	13.472	173.159	211.045	426.735	872.294	52.366	5.634	14.768
%RSD		2.352	2.279	5.871	2.047	0.398	0.517	0.956	9.488	14.846
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	07:14:55	260.940	82.813	146.876	319.274	31.250	31.250	215.627	14.063	8.854
2	07:16:03	282.815	103.125	142.188	320.837	45.313	45.313	211.981	15.625	10.938
3	07:17:11	217.189	96.875	187.501	326.566	28.125	28.125	219.793	17.708	18.750
x		253.648	94.271	158.855	322.226	34.896	34.896	215.800	15.799	12.847
σ		33.415	10.404	24.919	3.839	9.155	9.155	3.909	1.829	5.217
%RSD		13.174	11.036	15.686	1.191	26.236	26.236	1.811	11.578	40.608
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	07:14:55	150.001	62.500	54.688	23.438	68.750	0.000	156425.180	125.001	10.938
2	07:16:03	142.188	20.313	75.000	17.188	70.313	3.125	155877.050	106.250	14.063
3	07:17:11	142.188	21.875	60.938	21.875	57.813	1.563	153547.340	90.625	29.688
x		144.792	34.896	63.542	20.833	65.625	1.563	155283.190	107.292	18.229
σ		4.511	23.919	10.404	3.253	6.811	1.563	1528.071	17.211	10.045
%RSD		3.115	68.543	16.373	15.613	10.378	100.000	0.984	16.042	55.107
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	07:14:55	0.000	0.000	3.125	6.250	45.313	162.501	685.954	1260.993	364640.360
2	07:16:03	3.125	3.125	18.750	3.125	50.000	112.500	642.202	1218.802	365263.800
3	07:17:11	4.688	4.688	26.563	4.688	50.000	82.813	704.705	1248.492	359525.650
x		2.604	2.604	16.146	4.688	48.438	119.271	677.620	1242.762	363143.270
σ		2.387	2.387	11.934	1.563	2.706	40.273	32.074	21.671	3148.422
%RSD		91.652	91.652	73.913	33.333	5.587	33.766	4.733	1.744	0.867
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	07:14:55	385468.790	51.563	114.063	195.314	151.563	440.632	368769.340	512.509	
2	07:16:03	384497.830	78.125	167.188	193.751	168.751	428.131	370388.560	535.948	
3	07:17:11	381015.750	46.875	131.251	203.126	168.751	401.568	368453.540	575.012	
x		383660.790	58.854	137.501	197.397	163.022	423.444	369203.810	541.156	
σ		2341.551	16.853	27.109	5.023	9.923	19.949	1038.100	31.575	
%RSD		0.610	28.635	19.715	2.545	6.087	4.711	0.281	5.835	

CCV47 11/17/2011 07:21:42 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	07:22:50	8973.130	15353.559	2454.898	368.755	12498110.000	10159475.000	1496490.200	1799309.700	2719382.100
2	07:23:58	8938.733	15549.604	2393.951	426.569	12592459.000	10211375.000	1510329.900	1813148.200	2730986.400
3	07:25:06	9087.264	15422.904	2386.137	425.006	12618356.000	10211332.000	1510511.800	1810629.100	2725233.700
x		8999.709	15442.022	2411.662	406.777	12569642.000	10194061.000	1505777.300	1807695.700	2725200.800
$\sigma$		77.751	99.411	37.647	32.937	63286.781	29951.928	8043.372	7370.852	5802.241
%RSD		0.864	0.644	1.561	8.097	0.503	0.294	0.534	0.408	0.213
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	07:22:50	32267.651	155914.960	31237.239	151783.330	8451987.700	39437.173	641916.000	65052.465	20965.373
2	07:23:58	32345.953	156407.810	30944.416	153716.330	8500725.800	38996.904	645840.190	64529.790	21392.568
3	07:25:06	32107.917	156856.440	30786.262	155062.010	8471999.500	38868.430	646822.220	66039.792	20818.283
x		32240.507	156393.070	30989.306	153520.550	8474904.400	39100.835	644859.470	65207.349	21058.741
$\sigma$		121.317	470.909	228.815	1648.084	24498.516	298.276	2595.979	766.824	298.310
%RSD		0.376	0.301	0.738	1.074	0.289	0.763	0.403	1.176	1.417
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	07:22:50	323252.240	293849.200	37591.582	1082539.200	817641.590	17879755.000	459936.660	373417.460	83002.934
2	07:23:58	325547.230	294517.440	37318.994	1094403.400	820493.650	17988055.000	463045.650	376143.850	82903.924
3	07:25:06	323910.660	294180.930	37162.336	1091844.800	826227.560	18101725.000	463566.840	375306.630	83424.126
x		324236.710	294182.520	37357.637	1089595.800	821454.260	17989845.000	462183.050	374955.980	83110.328
$\sigma$		1181.727	334.122	217.216	6243.670	4372.849	110995.990	1962.806	1396.611	276.230
%RSD		0.364	0.114	0.581	0.573	0.532	0.617	0.425	0.372	0.332
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	07:22:50	408092.100	197816.430	131281.710	59562.975	3441.039	3441.039	10930.743	4378.275	14.063
2	07:23:58	409653.020	197607.320	131907.750	60323.971	3403.530	3403.530	11024.565	4528.322	17.188
3	07:25:06	411691.640	198885.810	131382.630	60265.391	3303.507	3303.507	11033.947	4629.396	20.313
x		409812.250	198103.190	131524.030	60050.779	3382.692	3382.692	10996.418	4511.998	17.188
$\sigma$		1805.043	685.792	336.120	423.465	71.095	71.095	57.070	126.354	3.125
%RSD		0.440	0.346	0.256	0.705	2.102	2.102	0.519	2.800	18.182
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	07:22:50	58745.539	102972.910	110620.390	64884.516	166638.130	3.125	149646.900	6442.077	315524.520
2	07:23:58	59354.297	104158.020	111437.640	64300.635	169363.650	0.000	151694.890	6518.674	320110.810
3	07:25:06	59435.885	104222.550	111431.340	65104.263	168955.740	0.000	152220.760	6324.837	316289.600
x		59178.574	103784.490	111163.120	64763.138	168319.170	1.042	151187.520	6428.530	317308.310
$\sigma$		377.232	703.591	470.033	415.336	1470.044	1.804	1359.873	97.626	2457.000
%RSD		0.637	0.678	0.423	0.641	0.873	173.205	0.899	1.519	0.774
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	07:22:50	4722.655	4722.655	309809.260	72137.927	202858.270	298318.540	296313.390	528884.090	361275.210
2	07:23:58	4805.496	4805.496	309480.370	71805.006	202994.560	301791.920	299815.010	533019.540	363278.180
3	07:25:06	4885.210	4885.210	308591.130	72673.444	203541.320	300994.100	297879.840	534602.060	367854.000
x		4804.454	4804.454	309293.590	72205.459	203131.390	300368.190	298002.750	532168.560	364135.800
$\sigma$		81.282	81.282	630.180	438.140	361.497	1819.320	1754.042	2952.445	3372.203
%RSD		1.692	1.692	0.204	0.607	0.178	0.606	0.589	0.555	0.926
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	07:22:50	378952.570	565126.710	1375550.100	454435.040	429243.940	1021437.500	358534.000	2518019.400	
2	07:23:58	383108.110	571770.900	1383953.400	459070.390	433405.870	1028303.200	361586.060	2523589.000	
3	07:25:06	390886.490	573873.040	1391558.900	461127.260	431848.830	1028053.400	366911.470	2512320.500	
x		384315.720	570256.880	1383687.500	458210.900	431499.550	1025931.400	362343.840	2517976.300	
$\sigma$		6057.917	4565.497	8007.675	3427.899	2102.837	3893.787	4239.836	5634.410	
%RSD		1.576	0.801	0.579	0.748	0.487	0.380	1.170	0.224	

CCB47 11/17/2011 07:29:35 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	07:30:43	9418.729	20.313	51.563	342.192	169747.860	6826.631	920.342	1156.297	14449.491
2	07:31:51	9543.812	21.354	45.313	357.817	169363.650	5349.439	692.204	900.028	14135.115
3	07:32:59	9243.615	19.271	31.250	353.129	171381.250	6098.176	840.650	1046.913	14080.373
x		9402.052	20.313	42.708	351.046	170164.250	6091.415	817.732	1034.413	14221.660
$\sigma$		150.792	1.042	10.404	8.018	1071.314	738.619	115.783	128.591	199.197
%RSD		1.604	5.128	24.360	2.284	0.630	12.126	14.159	12.431	1.401
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	07:30:43	1150.046	1062.540	17623.364	158126.570	202691.870	37.500	876.589	68047.619	45.313
2	07:31:51	1059.414	970.345	17829.870	157722.140	200259.490	43.750	810.961	67305.051	42.188
3	07:32:59	1131.295	1090.667	17889.319	158196.090	200929.740	35.938	817.211	66631.593	45.313
x		1113.585	1041.184	17780.851	158014.930	201293.700	39.063	834.920	67328.088	44.271
$\sigma$		47.841	62.939	139.589	255.938	1256.372	4.134	36.222	708.294	1.804
%RSD		4.296	6.045	0.785	0.162	0.624	10.583	4.338	1.052	4.075
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	07:30:43	6126.313	676.579	2131.409	4644.505	682.829	69525.020	3053.451	200.001	129.688
2	07:31:51	5982.502	679.704	2104.843	4383.485	589.075	65394.647	2903.420	145.313	93.750
3	07:32:59	6115.371	698.455	1950.133	4524.154	604.700	64831.150	2840.907	156.251	106.250
x		6074.729	684.912	2062.128	4517.381	625.535	66583.605	2932.593	167.189	109.896
$\sigma$		80.058	11.832	97.896	130.642	50.230	2562.874	109.234	28.938	18.244
%RSD		1.318	1.727	4.747	2.892	8.030	3.849	3.725	17.309	16.601
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	07:30:43	328.129	114.063	137.501	103.125	35.938	35.938	259.377	16.667	17.188
2	07:31:51	282.815	103.125	107.813	115.105	46.875	46.875	231.773	22.917	18.229
3	07:32:59	317.191	118.750	121.876	108.855	32.813	32.813	247.398	17.708	15.104
x		309.378	111.980	122.396	109.028	38.542	38.542	246.183	19.097	16.840
$\sigma$		23.645	8.018	14.851	5.992	7.384	7.384	13.842	3.348	1.591
%RSD		7.643	7.160	12.133	5.495	19.159	19.159	5.623	17.534	9.449
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	07:30:43	256.252	390.630	406.256	268.753	685.954	0.000	160641.900	120.313	190.626
2	07:31:51	184.376	320.316	331.254	215.627	585.950	1.563	159845.550	109.375	110.938
3	07:32:59	200.001	273.440	295.316	181.251	428.131	0.000	159987.750	100.000	200.001
x		213.543	328.129	344.275	221.877	566.678	0.521	160158.400	109.896	167.189
$\sigma$		37.803	58.984	56.605	44.084	129.987	0.902	424.721	10.166	48.939
%RSD		17.703	17.976	16.442	19.869	22.938	173.205	0.265	9.251	29.272
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	07:30:43	0.000	0.000	173.439	56.250	400.006	960.970	212.502	390.630	373148.050
2	07:31:51	1.563	1.563	128.126	17.188	303.128	664.078	156.251	303.128	370571.330
3	07:32:59	0.000	0.000	164.063	29.688	290.628	523.447	137.501	271.878	370964.140
x		0.521	0.521	155.209	34.375	331.254	716.165	168.751	321.879	371561.180
$\sigma$		0.902	0.902	23.919	19.949	59.868	223.364	39.032	61.557	1388.240
%RSD		173.205	173.205	15.411	58.033	18.073	31.189	23.130	19.124	0.374
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	07:30:43	392724.960	368.755	817.211	362.505	315.628	832.837	381172.990	1314.123	
2	07:31:51	386486.360	235.939	568.761	326.566	259.377	626.576	377494.410	892.215	
3	07:32:59	391628.270	323.441	829.712	293.753	290.628	725.018	378447.250	1018.786	
x		390279.860	309.378	738.561	327.608	288.545	728.144	379038.220	1075.042	
$\sigma$		3330.718	67.515	147.184	34.388	28.183	103.166	1909.166	216.506	
%RSD		0.853	21.823	19.928	10.497	9.767	14.168	0.504	20.139	

C4464-16 MH3BB4 11/17/2011 07:37:28 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	07:38:36	8425.922	19.792	1145.358	1076.603	152044210.000	3344267.700	484628.470	597391.100	83689.736
2	07:39:44	8472.824	18.229	1100.042	1104.730	154519150.000	3410749.400	495040.570	603792.600	84612.334
3	07:40:52	9010.653	16.146	1254.743	1143.796	153702340.000	3403249.400	493059.740	603238.670	84279.123
x		8636.466	18.056	1166.715	1108.376	153421900.000	3386088.800	490909.600	601474.120	84193.731
$\sigma$		324.903	1.829	79.531	33.744	1261077.400	36411.809	5529.043	3546.832	467.189
%RSD		3.762	10.130	6.817	3.044	0.822	1.075	1.126	0.590	0.555
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	07:38:36	603988.110	43301.464	193283.130	742543.520	2433082.600	28908.908	476940.170	62422.018	8490.022
2	07:39:44	613929.980	44045.922	197062.360	771714.580	2474397.600	29492.913	485132.660	63110.973	8443.119
3	07:40:52	617350.900	44066.297	195753.930	776728.790	2486720.900	29265.884	487167.360	64622.395	8638.549
x		611756.330	43804.561	195366.480	763662.300	2464733.700	29222.568	483080.060	63385.128	8523.897
$\sigma$		6941.512	435.814	1919.178	18460.431	28094.708	294.402	5413.751	1125.516	102.023
%RSD		1.135	0.995	0.982	2.417	1.140	1.007	1.121	1.776	1.197
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	07:38:36	82159.014	7700.512	14726.336	91786.107	909153.040	1579053.500	42555.477	970.345	2215.797
2	07:39:44	83664.589	7928.762	14706.003	92965.572	916163.120	1596318.800	43147.875	945.344	2228.299
3	07:40:52	83007.648	8092.917	14443.235	91537.646	916712.350	1593033.800	43119.665	940.656	2240.801
x		82943.750	7907.397	14625.191	92096.442	914009.500	1589468.700	42941.006	952.115	2228.299
$\sigma$		754.819	197.073	157.906	762.872	4214.777	9168.143	334.175	15.961	12.502
%RSD		0.910	2.492	1.080	0.828	0.461	0.577	0.778	1.676	0.561
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	07:38:36	1228.178	531.260	948.469	12840.143	159.376	159.376	220.835	22.917	15.104
2	07:39:44	1212.552	496.884	910.967	13042.409	140.626	140.626	204.168	25.000	17.188
3	07:40:52	1251.617	521.885	898.466	12965.777	185.939	185.939	219.793	33.854	15.104
x		1230.782	516.676	919.300	12949.443	161.980	161.980	214.932	27.257	15.799
$\sigma$		19.663	17.770	26.023	102.118	22.768	22.768	9.336	5.808	1.203
%RSD		1.598	3.439	2.831	0.789	14.056	14.056	4.344	21.307	7.613
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	07:38:36	12496.088	1081.291	3205.047	720.331	1840.744	1.563	141743.470	309.378	173.439
2	07:39:44	12269.329	1120.356	3081.582	654.703	1717.291	0.000	142223.200	343.754	137.501
3	07:40:52	12522.674	1068.790	3108.151	634.389	1639.157	0.000	144641.050	300.003	117.188
x		12429.364	1090.146	3131.593	669.807	1732.397	0.521	142869.240	317.712	142.709
$\sigma$		139.230	26.899	64.985	44.918	101.639	0.902	1553.065	23.035	28.485
%RSD		1.120	2.468	2.075	6.706	5.867	173.205	1.087	7.250	19.960
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	07:38:36	81.250	81.250	117.188	37.500	417.194	1501.641	55650.371	99364.682	348517.200
2	07:39:44	100.000	100.000	110.938	18.750	410.943	1351.626	56309.195	101375.610	349716.290
3	07:40:52	76.563	76.563	79.688	26.563	354.692	1345.376	56098.995	100333.920	356289.830
x		85.938	85.938	102.605	27.604	394.276	1399.548	56019.520	100358.070	351507.770
$\sigma$		12.402	12.402	20.091	9.418	34.423	88.471	336.526	1005.682	4184.551
%RSD		14.431	14.431	19.581	34.119	8.731	6.321	0.601	1.002	1.190
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	07:38:36	367525.390	239.065	640.639	2064.212	1829.805	4591.363	338891.290	16778.597	
2	07:39:44	369213.410	146.876	398.443	2101.717	1831.367	4478.827	339529.620	16536.127	
3	07:40:52	374888.040	115.625	250.002	2089.215	1817.303	4439.752	347283.000	16543.949	
x		370542.280	167.189	429.695	2085.048	1826.158	4503.314	341901.300	16619.558	
$\sigma$		3857.018	64.178	197.185	19.097	7.709	78.716	4671.604	137.788	
%RSD		1.041	38.386	45.890	0.916	0.422	1.748	1.366	0.829	

C4464-06 MH3BA6 11/17/2011 07:45:21 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	07:46:29	8812.092	14.583	1204.738	2445.522	160385810.000	3848382.400	559419.470	685025.470	72028.000
2	07:47:37	8863.686	15.625	1212.552	2558.042	161145560.000	3850696.600	559323.640	684347.220	71828.562
3	07:48:45	8733.919	15.104	1248.492	2550.228	162641400.000	3893146.400	565329.820	693116.110	72313.813
x		8803.233	15.104	1221.927	2517.930	161390920.000	3864075.100	561357.650	687496.270	72056.791
σ		65.336	0.521	23.335	62.829	1147636.200	25203.016	3440.340	4878.726	243.904
%RSD		0.742	3.448	1.910	2.495	0.711	0.652	0.613	0.710	0.338
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	07:46:29	646139.210	46572.667	199449.840	620430.080	2495882.000	32466.538	539866.460	63322.845	7845.904
2	07:47:37	648456.360	46599.316	199877.640	623598.010	2495218.100	32098.521	539469.050	64101.305	8249.256
3	07:48:45	654311.350	46770.186	202168.920	632655.370	2514964.400	32223.802	544645.970	63448.400	8010.058
x		649635.640	46647.390	200498.800	625561.150	2502021.500	32262.954	541327.160	63624.183	8035.073
σ		4211.767	107.176	1462.095	6344.673	11213.790	187.107	2881.033	417.941	202.836
%RSD		0.648	0.230	0.729	1.014	0.448	0.580	0.532	0.657	2.524
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	07:46:29	74982.204	7026.728	12117.637	115003.230	1020711.800	1979931.500	53093.793	740.644	2312.687
2	07:47:37	76040.903	6989.209	12583.665	114921.330	1023310.000	1980162.000	52643.694	804.710	2247.052
3	07:48:45	76884.462	7186.182	12824.504	115163.890	1032092.100	1995123.000	52595.078	767.208	2301.748
x		75969.190	7067.373	12508.602	115029.480	1025371.300	1985072.100	52777.522	770.854	2287.162
σ		953.155	104.588	359.362	123.396	5963.594	8705.055	274.975	32.188	35.165
%RSD		1.255	1.480	2.873	0.107	0.582	0.439	0.521	4.176	1.537
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	07:46:29	995.347	360.942	1307.872	14122.081	142.188	142.188	215.627	28.646	13.542
2	07:47:37	1037.538	384.380	1423.508	14299.862	150.001	150.001	214.585	24.479	17.708
3	07:48:45	1006.285	410.943	1342.251	14408.304	167.188	167.188	217.189	18.750	11.458
x		1013.057	385.422	1357.877	14276.749	153.126	153.126	215.800	23.958	14.236
σ		21.895	25.017	59.381	144.505	12.790	12.790	1.311	4.968	3.182
%RSD		2.161	6.491	4.373	1.012	8.352	8.352	0.607	20.738	22.354
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	07:46:29	11215.338	992.222	2958.119	706.267	1703.227	0.000	142829.200	321.879	109.375
2	07:47:37	11227.848	1025.037	3111.276	665.641	1634.469	1.563	143140.110	262.502	82.813
3	07:48:45	11293.525	1037.538	2711.195	701.580	1711.040	0.000	142762.920	275.003	100.000
x		11245.570	1018.266	2926.863	691.163	1682.912	0.521	142910.740	286.461	97.396
σ		41.998	23.404	201.864	22.227	42.135	0.902	201.379	31.303	13.471
%RSD		0.373	2.298	6.897	3.216	2.504	173.205	0.141	10.927	13.832
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	07:46:29	92.188	92.188	39.063	15.625	221.877	1010.973	69035.153	121829.780	353045.120
2	07:47:37	75.000	75.000	70.313	18.750	264.065	1009.411	68977.061	121836.090	352351.750
3	07:48:45	100.000	100.000	43.750	15.625	242.190	993.785	69090.105	122529.480	355679.590
x		89.063	89.063	51.042	16.667	242.710	1004.723	69034.106	122065.110	353692.150
σ		12.790	12.790	16.853	1.804	21.099	9.505	56.529	402.162	1755.736
%RSD		14.360	14.360	33.018	10.825	8.693	0.946	0.082	0.329	0.496
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	07:46:29	373617.910	87.500	232.814	1123.482	1014.099	2528.349	341655.980	17174.380	
2	07:47:37	371999.940	78.125	195.314	1162.547	1037.538	2597.111	343313.770	17163.429	
3	07:48:45	371959.850	54.688	132.813	1173.486	1103.168	2536.163	344166.740	17246.341	
x		372525.900	73.438	186.980	1153.172	1051.601	2553.874	343045.500	17194.717	
σ		945.922	16.901	50.519	26.287	46.170	37.648	1276.699	45.042	
%RSD		0.254	23.014	27.018	2.280	4.390	1.474	0.372	0.262	

C4464-07 MH3BA6D 11/17/2011 07:53:15 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	07:54:23	8696.396	19.792	1195.363	1315.686	158981440.000	3803521.900	550081.200	673587.900	70153.079
2	07:55:31	8818.346	15.104	1215.677	1150.046	159230530.000	3819304.000	554623.750	678819.180	70415.302
3	07:56:39	8577.574	6.771	1326.624	1190.675	160624280.000	3854435.900	559729.720	682337.230	70157.790
x		8697.439	13.889	1245.888	1218.802	159612080.000	3825753.900	554811.560	678248.100	70242.057
σ		120.389	6.595	70.654	86.328	885389.230	26062.607	4826.998	4402.534	150.053
%RSD		1.384	47.484	5.671	7.083	0.555	0.681	0.870	0.649	0.214
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	07:54:23	634454.460	45994.235	198475.480	608384.510	2471875.000	32223.802	531433.960	62680.961	8033.508
2	07:55:31	638102.280	46074.179	199020.480	623960.200	2481760.200	32096.955	534224.250	62112.862	7627.036
3	07:56:39	643378.060	46060.072	200616.000	628320.190	2494711.200	32076.596	539462.570	62081.476	8266.453
x		638644.930	46042.829	199370.650	620221.640	2482782.100	32132.451	535040.260	62291.766	7975.666
σ		4486.481	42.670	1112.398	10480.481	11452.319	79.765	4076.032	337.417	323.610
%RSD		0.703	0.093	0.558	1.690	0.461	0.248	0.762	0.542	4.057
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	07:54:23	73719.407	6868.838	12128.584	113744.780	1010479.100	1949274.600	52080.699	773.458	2162.664
2	07:55:31	75081.159	6973.577	12594.612	115009.530	1015374.200	1963828.800	52617.034	814.086	2307.999
3	07:56:39	75098.437	6997.026	12760.384	114393.680	1022580.800	1978668.400	52295.544	784.397	2256.428
x		74633.001	6946.480	12494.527	114382.660	1016144.700	1963923.900	52331.092	790.647	2242.364
σ		791.243	68.254	327.575	632.449	6087.491	14697.168	269.929	21.022	73.681
%RSD		1.060	0.983	2.622	0.553	0.599	0.748	0.516	2.659	3.286
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	07:54:23	1015.661	395.318	925.030	14025.110	170.314	170.314	208.335	21.354	10.938
2	07:55:31	1025.037	382.818	906.279	14073.074	146.876	146.876	194.272	26.563	11.979
3	07:56:39	948.469	371.880	926.593	14232.607	175.001	175.001	210.939	24.479	16.146
x		996.389	383.338	919.300	14110.264	164.063	164.063	204.515	24.132	13.021
σ		41.764	11.728	11.304	108.633	15.068	15.068	8.966	2.621	2.756
%RSD		4.192	3.059	1.230	0.770	9.184	9.184	4.384	10.863	21.166
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	07:54:23	11449.899	1101.605	2926.862	695.329	1695.413	0.000	141252.710	318.754	84.375
2	07:55:31	11481.174	1014.099	2883.103	648.452	1731.355	3.125	141328.450	306.253	65.625
3	07:56:39	11587.510	1015.661	2915.923	643.765	1609.466	1.563	141465.740	279.690	78.125
x		11506.194	1043.788	2908.629	662.515	1678.745	1.563	141348.970	301.566	76.042
σ		72.137	50.077	22.773	28.514	62.631	1.563	107.986	19.949	9.547
%RSD		0.627	4.798	0.783	4.304	3.731	100.000	0.076	6.615	12.555
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	07:54:23	57.813	57.813	159.376	9.375	279.690	1092.229	68948.800	122417.590	348506.000
2	07:55:31	67.188	67.188	57.813	12.500	276.565	1023.474	68575.133	122564.150	349535.380
3	07:56:39	73.438	73.438	34.375	4.688	235.939	1032.850	69498.328	122917.160	349487.350
x		66.146	66.146	83.855	8.854	264.065	1049.518	69007.420	122632.970	349176.240
σ		7.864	7.864	66.445	3.932	24.407	37.285	464.381	256.799	580.947
%RSD		11.890	11.890	79.238	44.411	9.243	3.553	0.673	0.209	0.166
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	07:54:23	368844.690	81.250	160.938	1101.605	1004.723	2565.855	337592.320	17139.964	
2	07:55:31	369586.940	46.875	129.688	1170.360	1012.536	2464.275	337480.340	16856.814	
3	07:56:39	369788.950	40.625	98.438	1148.484	1015.661	2576.795	340572.760	17534.192	
x		369406.860	56.250	129.688	1140.150	1010.973	2535.642	338548.470	17176.990	
σ		497.221	21.875	31.250	35.127	5.634	62.047	1753.976	340.203	
%RSD		0.135	38.889	24.096	3.081	0.557	2.447	0.518	1.981	

C4464-08 MH3BA6S 11/17/2011 08:01:09 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	08:02:17	8527.544	1329.229	1125.044	1173.486	152585280.000	3649837.200	531863.570	650232.880	546641.950
2	08:03:25	8524.417	1399.027	1129.732	1173.486	155208390.000	3722597.400	541000.360	662438.980	557754.680
3	08:04:33	8676.071	1359.961	1093.792	1214.114	154459510.000	3695619.000	534225.870	656816.200	554901.410
x		8576.011	1362.739	1116.189	1187.029	154084390.000	3689351.200	535696.600	656496.020	553099.350
σ		86.669	34.982	19.538	23.457	1351186.300	36782.849	4742.626	6109.348	5771.372
%RSD		1.011	2.567	1.750	1.976	0.877	0.997	0.885	0.931	1.043
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	08:02:17	620152.800	44013.008	191230.790	647423.560	2371164.300	30504.408	511241.760	62218.006	7680.189
2	08:03:25	630412.540	44433.056	193419.330	658595.370	2394941.800	30992.958	517717.250	60986.149	7767.736
3	08:04:33	620635.600	44685.403	192692.420	661486.980	2385901.500	31320.233	514973.850	61201.128	7939.706
x		623733.650	44377.156	192447.510	655835.310	2384002.500	30939.200	514644.290	61468.427	7795.877
σ		5789.128	339.665	1114.637	7426.870	12002.004	410.561	3250.301	657.993	132.027
%RSD		0.928	0.765	0.579	1.132	0.503	1.327	0.632	1.070	1.694
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	08:02:17	339350.430	103567.810	24713.546	147925.990	1304334.500	2407639.500	64645.938	309244.090	68875.008
2	08:03:25	346985.270	105272.390	25241.029	149743.210	1324546.800	2445685.800	65820.031	313684.660	69525.020
3	08:04:33	345186.220	104005.350	25361.555	148914.300	1323316.800	2437289.100	65948.748	316303.970	70812.571
x		343840.640	104281.850	25105.377	148861.170	1317399.400	2430204.800	65471.572	313077.570	69737.533
σ		3991.318	885.289	344.645	909.776	11331.212	19988.023	717.911	3568.879	986.108
%RSD		1.161	0.849	1.373	0.611	0.860	0.822	1.097	1.140	1.414
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	08:02:17	85252.058	41486.715	56298.214	17603.548	745.332	745.332	2027.748	794.814	13.542
2	08:03:25	86951.316	41413.065	56748.428	18139.634	764.083	764.083	2027.227	809.398	10.938
3	08:04:33	86830.270	41856.542	57675.567	17966.499	682.829	682.829	2070.983	804.189	14.583
x		86344.548	41585.441	56907.403	17903.227	730.748	730.748	2041.986	802.800	13.021
σ		948.058	237.651	702.303	273.587	42.545	42.545	25.114	7.391	1.878
%RSD		1.098	0.571	1.234	1.528	5.822	5.822	1.230	0.921	14.422
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	08:02:17	10838.485	971.908	2683.064	568.761	1678.224	0.000	138830.700	723.456	24575.808
2	08:03:25	11210.647	1018.786	2886.229	668.766	1698.539	0.000	139905.170	776.584	25220.681
3	08:04:33	11115.260	1018.786	2842.470	667.203	1596.964	3.125	139726.880	850.025	24993.720
x		11054.797	1003.160	2803.921	634.910	1657.909	1.042	139487.580	783.355	24930.070
σ		193.308	27.065	106.927	57.292	53.748	1.804	575.818	63.556	327.114
%RSD		1.749	2.698	3.813	9.024	3.242	173.205	0.413	8.113	1.312
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	08:02:17	487.508	487.508	24247.122	6135.692	310.941	49057.526	265457.730	470695.920	346210.560
2	08:03:25	459.382	459.382	24680.676	6368.607	343.754	49681.552	268520.430	475711.130	341097.560
3	08:04:33	464.070	464.070	24402.073	6373.296	306.253	49455.770	266137.390	474961.810	343283.370
x		470.320	470.320	24443.291	6292.532	320.316	49398.282	266705.180	473789.620	343530.500
σ		15.069	15.069	219.696	135.847	20.433	315.960	1608.359	2705.293	2565.443
%RSD		3.204	3.204	0.899	2.159	6.379	0.640	0.603	0.571	0.747
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	08:02:17	365135.580	48231.282	119275.550	18474.438	16074.664	38830.828	338113.810	16492.327	
2	08:03:25	361600.480	49347.584	120249.290	18641.843	16002.708	39313.395	334431.770	16870.894	
3	08:04:33	362827.890	48602.850	118300.300	18344.583	15821.256	38959.302	335089.100	16839.607	
x		363187.980	48727.239	119275.050	18486.955	15966.209	39034.508	335878.230	16734.276	
σ		1794.852	568.452	974.492	149.024	130.587	249.920	1963.772	210.117	
%RSD		0.494	1.167	0.817	0.806	0.818	0.640	0.585	1.256	

C4464-06LX5 MH3BA6L 11/17/2011 08:09:04 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	08:10:12	8524.417	13.021	240.627	806.273	32050098.000	776737.030	111067.590	137518.100	23988.874
2	08:11:20	8619.787	14.063	295.316	737.519	32476611.000	787552.610	112947.870	138854.370	24034.263
3	08:12:28	8846.488	15.625	268.753	787.522	31766689.000	769463.520	111110.100	137196.280	24204.863
x		8663.564	14.236	268.232	777.105	32097799.000	777917.720	111708.520	137856.250	24076.000
σ		165.438	1.311	27.348	35.541	357356.740	9102.158	1073.518	879.248	113.883
%RSD		1.910	9.207	10.196	4.574	1.113	1.170	0.961	0.638	0.473
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	08:10:12	126756.750	9745.511	52805.226	245415.050	648356.670	6543.686	106629.280	62858.300	1731.355
2	08:11:20	129600.840	9953.466	53415.300	246699.390	655481.970	6671.870	109548.110	61706.419	1590.714
3	08:12:28	127589.110	9840.888	51881.539	244057.710	647577.170	6448.330	107139.320	62925.783	1636.031
x		127982.230	9846.622	52700.688	245390.720	650471.940	6554.629	107772.240	62496.834	1652.700
σ		1462.236	104.096	772.206	1321.004	4356.285	112.171	1558.953	685.351	71.787
%RSD		1.143	1.057	1.465	0.538	0.670	1.711	1.447	1.097	4.344
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	08:10:12	26828.293	1887.625	6493.663	26172.390	206311.890	437122.840	12691.573	225.002	539.073
2	08:11:20	25799.839	1867.310	6231.046	26166.129	210134.190	442503.490	12890.188	212.502	539.073
3	08:12:28	25696.528	1954.821	6066.913	25796.708	205390.950	434302.820	12532.057	279.690	507.822
x		26108.220	1903.252	6263.874	26045.076	207279.010	437976.380	12704.606	239.065	528.656
σ		625.737	45.801	215.261	215.116	2515.167	4166.434	179.421	35.734	18.043
%RSD		2.397	2.406	3.437	0.826	1.213	0.951	1.412	14.947	3.413
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	08:10:12	367.192	139.063	346.879	2963.849	75.000	75.000	191.668	16.667	11.979
2	08:11:20	332.816	129.688	393.755	2941.449	107.813	107.813	201.564	13.542	11.458
3	08:12:28	328.129	121.876	378.130	2923.216	68.750	68.750	198.439	18.229	15.104
x		342.712	130.209	372.922	2942.838	83.854	83.854	197.224	16.146	12.847
σ		21.329	8.606	23.868	20.352	20.983	20.983	5.059	2.387	1.972
%RSD		6.224	6.609	6.400	0.692	25.023	25.023	2.565	14.783	15.348
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	08:10:12	2203.295	270.315	584.387	200.001	406.256	3.125	145311.870	115.625	15.625
2	08:11:20	2284.558	240.627	656.265	165.626	329.691	1.563	145316.600	132.813	32.813
3	08:12:28	2247.052	210.939	537.510	156.251	389.068	0.000	149616.900	142.188	37.500
x		2244.968	240.627	592.721	173.959	375.005	1.563	146748.460	130.209	28.646
σ		40.671	29.688	59.814	23.035	40.173	1.563	2484.147	13.471	11.517
%RSD		1.812	12.338	10.092	13.242	10.713	100.000	1.693	10.346	40.206
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	08:10:12	7.813	7.813	28.125	6.250	92.188	373.442	14016.248	24580.504	350555.230
2	08:11:20	14.063	14.063	23.438	10.938	79.688	318.754	13595.529	24906.067	347531.110
3	08:12:28	15.625	15.625	34.375	12.500	85.938	303.128	13736.288	24131.301	358516.380
x		12.500	12.500	28.646	9.896	85.938	331.775	13782.688	24539.291	352200.910
σ		4.134	4.134	5.487	3.253	6.250	36.921	214.163	389.024	5674.521
%RSD		33.072	33.072	19.156	32.868	7.273	11.128	1.554	1.585	1.611
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	08:10:12	371900.520	35.938	93.750	362.505	307.816	715.643	351141.240	3501.992	
2	08:11:20	369157.300	31.250	92.188	370.317	296.878	810.961	349122.340	3500.429	
3	08:12:28	375792.600	51.563	128.126	414.069	329.691	748.457	358670.170	3487.926	
x		372283.470	39.583	104.688	382.297	311.462	758.354	352977.910	3496.782	
σ		3334.187	10.636	20.313	27.791	16.708	48.423	5031.927	7.710	
%RSD		0.896	26.869	19.403	7.269	5.364	6.385	1.426	0.220	

## C4464-16X25 MH3BB4

11/17/2011 08:16:59 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	08:18:07	8824.600	9.375	95.313	375.005	6509951.100	143432.070	20711.878	25170.593	14934.365
2	08:19:15	8629.168	9.375	75.000	412.506	6554421.400	144922.000	20833.931	25768.532	15162.730
3	08:20:23	8966.876	8.333	85.938	410.943	6586287.000	145973.250	21206.353	25328.684	15042.290
x		8806.881	9.028	85.417	399.485	6550219.800	144775.770	20917.387	25422.603	15046.462
$\sigma$		169.550	0.601	10.166	21.215	38340.994	1276.880	257.585	309.836	114.240
%RSD		1.925	6.662	11.902	5.310	0.585	0.882	1.231	1.219	0.759
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	08:18:07	25309.901	2545.539	24305.033	177574.960	283771.960	1206.301	20639.899	64068.345	360.942
2	08:19:15	25829.580	2753.390	24237.731	178264.720	283458.010	1245.367	21120.288	62955.602	412.506
3	08:20:23	25976.721	2683.064	24613.373	178217.260	285097.970	1214.114	21023.270	62762.568	393.755
x		25705.401	2660.665	24385.379	178018.980	284109.310	1221.927	20927.819	63262.171	389.068
$\sigma$		350.325	105.721	200.295	385.264	870.475	20.672	254.021	704.807	26.100
%RSD		1.363	3.973	0.821	0.216	0.306	1.692	1.214	1.114	6.708
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	08:18:07	14513.619	937.531	4408.493	7361.271	38451.679	113691.230	4342.847	129.688	160.938
2	08:19:15	14573.054	931.280	4270.951	7269.036	39150.448	114976.460	4288.144	103.125	192.189
3	08:20:23	14283.700	923.467	4370.981	7203.378	39228.788	115589.180	4102.151	132.813	145.313
x		14456.791	930.759	4350.142	7277.895	38943.638	114752.290	4244.381	121.876	166.147
$\sigma$		152.819	7.046	71.100	79.318	427.846	968.630	126.175	16.313	23.868
%RSD		1.057	0.757	1.634	1.090	1.099	0.844	2.973	13.385	14.366
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	08:18:07	156.251	81.250	132.813	695.850	51.563	51.563	194.793	16.667	12.500
2	08:19:15	223.439	82.813	156.251	699.496	50.000	50.000	197.918	14.583	14.063
3	08:20:23	212.502	71.875	159.376	675.016	50.000	50.000	228.127	12.500	10.417
x		197.397	78.646	149.480	690.121	50.521	50.521	206.946	14.583	12.326
$\sigma$		36.051	5.916	14.518	13.208	0.902	0.902	18.410	2.083	1.829
%RSD		18.263	7.522	9.712	1.914	1.786	1.786	8.896	14.286	14.839
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	08:18:07	604.700	73.438	193.751	54.688	118.750	0.000	152274.450	125.001	20.313
2	08:19:15	579.699	92.188	157.813	39.063	128.126	0.000	149736.900	135.938	28.125
3	08:20:23	554.698	84.375	168.751	45.313	121.876	1.563	150403.220	109.375	32.813
x		579.699	83.334	173.439	46.354	122.917	0.521	150804.860	123.438	27.083
$\sigma$		25.001	9.418	18.422	7.864	4.774	0.902	1315.588	13.350	6.315
%RSD		4.313	11.302	10.622	16.966	3.884	173.205	0.872	10.815	23.316
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	08:18:07	3.125	3.125	17.188	6.250	62.500	218.752	2456.461	4264.699	361110.180
2	08:19:15	1.563	1.563	18.750	1.563	42.188	160.938	2492.405	4274.077	355783.690
3	08:20:23	3.125	3.125	26.563	0.000	56.250	98.438	2450.210	4450.693	355285.590
x		2.604	2.604	20.833	2.604	53.646	159.376	2466.359	4329.823	357393.150
$\sigma$		0.902	0.902	5.023	3.253	10.404	60.172	22.772	104.782	3228.660
%RSD		34.641	34.641	24.109	124.900	19.393	37.755	0.923	2.420	0.903
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	08:18:07	378277.210	40.625	107.813	228.127	234.377	498.446	365140.390	851.588	
2	08:19:15	375989.880	56.250	98.438	226.564	195.314	467.195	363331.060	778.146	
3	08:20:23	373244.270	56.250	140.626	248.440	210.939	487.508	361754.300	800.022	
x		375837.120	51.042	115.625	234.377	213.543	484.383	363408.580	809.919	
$\sigma$		2519.946	9.021	22.152	12.204	19.661	15.858	1694.377	37.708	
%RSD		0.670	17.674	19.159	5.207	9.207	3.274	0.466	4.656	

## C4464-06X25 MH3BA6

11/17/2011 08:24:54 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	08:26:02	8812.092	9.896	56.250	404.693	6657411.900	160261.100	23292.411	28077.565	14798.286
2	08:27:10	8602.589	12.500	62.500	403.131	6768936.600	162821.050	23206.333	28504.973	14465.132
3	08:28:18	9118.534	10.938	85.938	470.320	6751425.800	163254.080	23498.999	28318.665	14266.495
x		8844.405	11.111	68.229	426.048	6725924.800	162112.080	23332.581	28300.401	14509.971
$\sigma$		259.486	1.311	15.651	38.349	59976.392	1617.550	150.411	214.288	268.716
%RSD		2.934	11.797	22.939	9.001	0.892	0.998	0.645	0.757	1.852
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	08:26:02	26759.414	2848.722	24458.420	167804.790	280379.390	1315.686	22315.854	63222.401	384.380
2	08:27:10	27019.277	2687.753	24001.395	167036.490	281646.130	1406.319	22949.669	63643.013	323.441
3	08:28:18	26800.115	2678.376	24409.899	167324.200	283532.910	1398.506	22409.751	62618.186	326.566
x		26859.602	2738.284	24289.905	167388.500	281852.810	1373.504	22558.425	63161.200	344.796
$\sigma$		139.772	95.757	251.031	388.164	1586.886	50.224	342.065	515.147	34.317
%RSD		0.520	3.497	1.033	0.232	0.563	3.657	1.516	0.816	9.953
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	08:26:02	13132.596	840.650	3695.791	8046.015	42463.015	127978.500	4447.567	57.813	145.313
2	08:27:10	12517.982	875.027	3762.996	8186.720	42806.225	128265.430	4516.339	90.625	150.001
3	08:28:18	12752.564	932.843	3775.499	7941.269	42629.134	128741.560	4578.859	71.875	179.689
x		12801.048	882.840	3744.762	8058.002	42632.791	128328.500	4514.255	73.438	158.334
$\sigma$		310.162	46.591	42.869	123.164	171.634	385.420	65.671	16.462	18.641
%RSD		2.423	5.277	1.145	1.528	0.403	0.300	1.455	22.416	11.773
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	08:26:02	132.813	75.000	153.126	668.245	42.188	42.188	202.606	11.979	9.896
2	08:27:10	173.439	45.313	157.813	720.331	50.000	50.000	200.001	13.542	11.979
3	08:28:18	185.939	70.313	182.814	729.185	34.375	34.375	207.814	13.021	10.938
x		164.063	63.542	164.584	705.920	42.188	42.188	203.474	12.847	10.938
$\sigma$		27.776	15.960	15.960	32.927	7.813	7.813	3.978	0.796	1.042
%RSD		16.930	25.117	9.697	4.664	18.519	18.519	1.955	6.193	9.524
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	08:26:02	482.821	87.500	129.688	46.875	123.438	0.000	151576.460	104.688	23.438
2	08:27:10	500.009	70.313	162.501	32.813	100.000	0.000	149209.550	120.313	18.750
3	08:28:18	465.633	57.813	173.439	45.313	87.500	0.000	149913.740	109.375	17.188
x		482.821	71.875	155.209	41.667	103.646	0.000	150233.250	111.459	19.792
$\sigma$		17.188	14.905	22.768	7.708	18.244	0.000	1215.373	8.018	3.253
%RSD		3.560	20.738	14.670	18.498	17.602	0.000	0.809	7.194	16.434
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	08:26:02	1.563	1.563	14.063	1.563	62.500	229.689	2719.009	4941.480	358857.600
2	08:27:10	4.688	4.688	9.375	3.125	46.875	120.313	2790.898	5202.510	352963.450
3	08:28:18	1.563	1.563	14.063	0.000	39.063	96.875	2800.274	4991.497	353091.560
x		2.604	2.604	12.500	1.563	49.479	148.959	2770.060	5045.162	354970.870
$\sigma$		1.804	1.804	2.706	1.563	11.934	70.890	44.460	138.543	3366.615
%RSD		69.282	69.282	21.651	100.000	24.119	47.590	1.605	2.746	0.948
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	08:26:02	378290.040	42.188	109.375	167.188	121.876	342.192	363374.330	779.709	
2	08:27:10	372048.040	37.500	87.500	142.188	135.938	323.441	360392.390	750.020	
3	08:28:18	371286.420	39.063	93.750	143.751	131.251	290.628	361097.360	790.647	
x		373874.830	39.583	96.875	151.042	129.688	318.754	361621.360	773.458	
$\sigma$		3842.600	2.387	11.267	14.005	7.160	26.099	1558.500	21.022	
%RSD		1.028	6.030	11.631	9.272	5.521	8.188	0.431	2.718	

## C4464-07X25 MH3BA6D 11/17/2011 08:32:50 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	08:33:58	8777.696	9.375	50.000	364.067	6572394.300	158252.960	22262.646	27841.166	14192.984
2	08:35:06	8733.919	14.583	50.000	392.193	6586375.500	158608.430	22682.055	27672.088	14236.778
3	08:36:14	8687.015	10.417	79.688	360.942	6581036.700	158575.260	22966.884	27787.937	14086.629
x		8732.877	11.458	59.896	372.401	6579935.500	158478.880	22637.195	27767.063	14172.131
$\sigma$		45.349	2.756	17.140	17.212	7055.323	196.356	354.256	86.450	77.216
%RSD		0.519	24.052	28.617	4.622	0.107	0.124	1.565	0.311	0.545
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	08:33:58	26346.147	2661.185	24013.916	164738.160	279660.820	1365.690	21855.768	63087.431	395.318
2	08:35:06	26167.694	2686.190	24549.200	164535.850	279657.640	1259.431	21777.524	63137.653	323.441
3	08:36:14	26245.963	2633.055	24236.166	164896.220	279050.630	1376.629	22056.076	62320.012	378.130
x		26253.268	2660.144	24266.428	164723.410	279456.360	1333.917	21896.456	62848.365	365.630
$\sigma$		89.450	26.583	268.922	180.637	351.381	64.738	143.664	458.256	37.533
%RSD		0.341	0.999	1.108	0.110	0.126	4.853	0.656	0.729	10.265
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	08:33:58	11762.653	795.335	3380.087	7920.945	41681.030	126695.270	4566.355	90.625	146.876
2	08:35:06	11643.806	703.142	3341.016	7863.101	41782.889	126586.500	4447.567	71.875	139.063
3	08:36:14	11739.196	817.211	3269.124	7903.748	41701.402	125922.860	4441.315	57.813	154.688
x		11715.218	771.896	3330.076	7895.932	41721.773	126401.540	4485.079	73.438	146.876
$\sigma$		62.947	60.539	56.285	29.704	53.899	418.104	70.456	16.462	7.813
%RSD		0.537	7.843	1.690	0.376	0.129	0.331	1.571	22.416	5.319
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	08:33:58	153.126	64.063	153.126	677.620	53.125	53.125	194.793	14.063	11.979
2	08:35:06	196.876	93.750	148.438	711.997	37.500	37.500	189.585	14.063	13.542
3	08:36:14	145.313	92.188	151.563	684.391	48.438	48.438	229.169	13.542	11.458
x		165.105	83.334	151.042	691.336	46.354	46.354	204.515	13.889	12.326
$\sigma$		27.791	16.707	2.387	18.210	8.018	8.018	21.508	0.301	1.084
%RSD		16.832	20.049	1.580	2.634	17.298	17.298	10.517	2.165	8.796
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	08:33:58	540.635	90.625	168.751	46.875	114.063	3.125	149801.630	106.250	15.625
2	08:35:06	503.134	50.000	126.563	32.813	110.938	0.000	150494.800	100.000	15.625
3	08:36:14	517.197	90.625	153.126	45.313	110.938	0.000	149032.720	85.938	9.375
x		520.322	77.084	149.480	41.667	111.980	1.042	149776.380	97.396	13.542
$\sigma$		18.945	23.455	21.329	7.708	1.804	1.804	731.368	10.404	3.608
%RSD		3.641	30.428	14.269	18.498	1.611	173.205	0.488	10.682	26.647
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	08:33:58	3.125	3.125	4.688	0.000	51.563	189.064	2750.265	5016.506	356283.420
2	08:35:06	4.688	4.688	14.063	4.688	34.375	143.751	2698.692	4878.958	354523.240
3	08:36:14	7.813	7.813	20.313	1.563	51.563	118.750	2767.456	5308.799	356385.930
x		5.208	5.208	13.021	2.083	45.833	150.522	2738.804	5068.088	355730.860
$\sigma$		2.387	2.387	7.864	2.387	9.923	35.642	35.785	219.514	1047.084
%RSD		45.826	45.826	60.399	114.564	21.651	23.679	1.307	4.331	0.294
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	08:33:58	373847.230	46.875	95.313	118.750	129.688	301.566	361310.460	723.456	
2	08:35:06	374382.860	45.313	79.688	156.251	126.563	304.691	361866.460	709.393	
3	08:36:14	371977.490	45.313	118.750	123.438	93.750	281.253	360752.880	796.897	
x		373402.530	45.833	97.917	132.813	116.667	295.836	361309.940	743.249	
$\sigma$		1262.845	0.902	19.661	20.433	19.908	12.726	556.788	46.990	
%RSD		0.338	1.968	20.079	15.384	17.064	4.302	0.154	6.322	

## C4464-08X25 MH3BA6S 11/17/2011 08:40:46 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	08:41:54	8757.371	67.188	62.500	360.942	6530431.200	157254.530	22298.639	27665.826	34074.965
2	08:43:02	8905.900	70.313	64.063	367.192	6548817.100	157925.940	22419.140	27337.069	33857.261
3	08:44:10	8758.934	66.146	53.125	390.630	6607435.700	160626.100	22622.586	28077.565	34698.338
x		8807.402	67.882	59.896	372.922	6562228.000	158602.190	22446.788	27693.486	34210.188
σ		85.306	2.168	5.916	15.651	40215.806	1784.620	163.733	371.022	436.539
%RSD		0.969	3.194	9.876	4.197	0.613	1.125	0.729	1.340	1.276
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	08:41:54	26205.263	2595.548	24120.346	165262.920	276393.460	1296.934	22054.511	61293.711	321.879
2	08:43:02	25801.404	2756.516	24511.636	163872.030	277261.610	1309.435	21968.441	63234.957	343.754
3	08:44:10	27028.670	2573.669	24527.288	165171.240	278810.060	1293.809	22070.160	61132.083	354.692
x		26345.112	2641.911	24386.423	164768.730	277488.380	1300.059	22031.037	61886.917	340.108
σ		625.471	99.852	230.563	777.915	1224.154	8.269	54.772	1170.231	16.708
%RSD		2.374	3.780	0.945	0.472	0.441	0.636	0.249	1.891	4.912
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	08:41:54	22390.971	4961.799	3808.320	9575.083	54814.335	150264.270	5139.987	13199.845	3100.336
2	08:43:02	21766.570	4686.706	3530.124	9679.841	55065.297	150723.760	5029.010	13104.445	3098.774
3	08:44:10	22214.133	4897.714	3731.737	9392.149	55656.645	152482.900	5304.110	13351.549	3140.970
x		22123.891	4848.740	3690.060	9549.024	55178.759	151156.980	5157.702	13218.613	3113.360
σ		321.834	143.937	143.705	145.605	432.466	1171.045	138.403	124.616	23.924
%RSD		1.455	2.969	3.894	1.525	0.784	0.775	2.683	0.943	0.768
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	08:41:54	3948.983	1917.316	2429.894	845.338	59.375	59.375	295.316	39.063	10.938
2	08:43:02	3870.837	1786.049	2512.721	858.359	68.750	68.750	271.878	35.938	14.063
3	08:44:10	3805.194	1923.567	2398.639	819.294	60.938	60.938	293.232	49.479	13.021
x		3875.005	1875.644	2447.085	840.997	63.021	63.021	286.808	41.493	12.674
σ		71.985	77.654	58.952	19.891	5.023	5.023	12.972	7.090	1.591
%RSD		1.858	4.140	2.409	2.365	7.970	7.970	4.523	17.088	12.555
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	08:41:54	487.508	87.500	159.376	53.125	109.375	1.563	149424.280	129.688	1131.295
2	08:43:02	498.446	64.063	140.626	34.375	117.188	3.125	149972.160	134.376	1167.235
3	08:44:10	418.756	64.063	150.001	62.500	101.563	3.125	148052.290	131.251	1114.106
x		468.237	71.875	150.001	50.000	109.375	2.604	149149.570	131.771	1137.545
σ		43.199	13.532	9.375	14.321	7.813	0.902	988.975	2.387	27.111
%RSD		9.226	18.827	6.250	28.641	7.143	34.641	0.663	1.811	2.383
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	08:41:54	14.063	14.063	1053.164	248.440	79.688	2256.428	10976.090	19931.081	352968.260
2	08:43:02	26.563	26.563	1064.102	251.565	60.938	2165.789	11076.167	19793.390	354856.360
3	08:44:10	15.625	15.625	1104.730	285.940	42.188	2231.424	11260.686	19978.022	351810.530
x		18.750	18.750	1073.999	261.982	60.938	2217.881	11104.315	19900.831	353211.720
σ		6.811	6.811	27.170	20.808	18.750	46.813	144.371	95.961	1537.443
%RSD		36.324	36.324	2.530	7.942	30.769	2.111	1.300	0.482	0.435
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	08:41:54	371312.070	2042.334	5130.609	807.835	807.835	1831.367	359753.140	759.395	
2	08:43:02	374002.790	2095.466	5046.204	803.148	712.518	1743.856	361533.180	745.332	
3	08:44:10	372237.250	2148.599	5308.799	854.713	732.831	1931.381	359109.110	829.712	
x		372517.370	2095.466	5161.870	821.899	751.061	1835.535	360131.810	778.146	
σ		1367.054	53.133	134.060	28.515	50.206	93.831	1255.614	45.207	
%RSD		0.367	2.536	2.597	3.469	6.685	5.112	0.349	5.810	

C4464-06LX125 MH3BA6L 11/17/2011 08:48:42 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	08:49:50	8966.876	3.125	12.500	329.691	1470408.800	33728.833	4703.899	5880.898	12438.225
2	08:50:58	8735.483	9.896	26.563	378.130	1480246.400	33672.450	4903.967	5854.324	12108.254
3	08:52:07	8733.919	8.333	35.938	340.629	1507997.000	34557.372	4957.110	6134.129	12632.145
x		8812.092	7.118	25.000	349.483	1486217.400	33986.218	4854.992	5956.450	12392.875
σ		134.049	3.545	11.797	25.404	19492.510	495.436	133.521	154.447	264.873
%RSD		1.521	49.806	47.186	7.269	1.312	1.458	2.750	2.593	2.137
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	08:49:50	6135.692	1314.123	18873.396	149351.650	204165.760	303.128	4932.101	62287.056	118.750
2	08:50:58	5741.779	1290.683	18767.006	149648.480	203782.220	278.128	4891.462	62001.442	81.250
3	08:52:07	6392.055	1345.376	18551.100	151852.810	205135.760	310.941	5102.474	60968.888	112.500
x		6089.842	1316.727	18730.501	150284.310	204361.250	297.399	4975.346	61752.462	104.167
σ		327.554	27.439	164.220	1366.442	697.624	17.140	111.955	693.459	20.091
%RSD		5.379	2.084	0.877	0.909	0.341	5.763	2.250	1.123	19.287
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	08:49:50	8014.748	559.386	2614.302	4286.581	8371.202	62965.018	2836.219	62.500	73.438
2	08:50:58	7966.283	604.700	2675.251	4416.307	8510.347	63732.473	2725.260	50.000	84.375
3	08:52:07	7845.904	562.511	2458.024	4264.699	8740.173	63997.717	2878.415	43.750	90.625
x		7942.312	575.532	2582.525	4322.529	8540.574	63565.069	2813.298	52.083	82.813
σ		86.937	25.308	112.045	81.948	186.333	536.316	79.108	9.547	8.700
%RSD		1.095	4.397	4.339	1.896	2.182	0.844	2.812	18.330	10.505
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	08:49:50	112.500	56.250	131.251	224.481	20.313	20.313	208.856	13.542	21.875
2	08:50:58	117.188	65.625	151.563	205.731	31.250	31.250	210.418	19.792	15.104
3	08:52:07	126.563	54.688	146.876	226.043	23.438	23.438	213.543	13.542	10.417
x		118.750	58.854	143.230	218.752	25.000	25.000	210.939	15.625	15.799
σ		7.160	5.916	10.636	11.304	5.634	5.634	2.387	3.608	5.761
%RSD		6.030	10.051	7.426	5.167	22.535	22.535	1.132	23.094	36.463
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	08:49:50	110.938	37.500	53.125	18.750	73.438	0.000	149179.550	82.813	14.063
2	08:50:58	129.688	32.813	46.875	26.563	51.563	0.000	150033.740	93.750	9.375
3	08:52:07	125.001	25.000	50.000	21.875	60.938	0.000	145375.000	103.125	25.000
x		121.876	31.771	50.000	22.396	61.979	0.000	148196.100	93.229	16.146
σ		9.758	6.315	3.125	3.932	10.975	0.000	2480.189	10.166	8.018
%RSD		8.006	19.876	6.250	17.558	17.707	0.000	1.674	10.905	49.661
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	08:49:50	0.000	0.000	15.625	1.563	37.500	139.063	548.448	1100.042	351917.810
2	08:50:58	0.000	0.000	4.688	7.813	50.000	64.063	529.697	1056.289	353358.990
3	08:52:07	3.125	3.125	18.750	4.688	39.063	62.500	598.450	945.344	347638.360
x		1.042	1.042	13.021	4.688	42.188	88.542	558.865	1033.892	350971.720
σ		1.804	1.804	7.384	3.125	6.811	43.760	35.540	79.744	2975.350
%RSD		173.205	173.205	56.710	66.667	16.144	49.422	6.359	7.713	0.848
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	08:49:50	372015.970	34.375	120.313	89.063	112.500	239.065	361190.290	228.127	
2	08:50:58	371929.390	35.938	92.188	98.438	89.063	215.627	362420.880	184.376	
3	08:52:07	363709.260	64.063	164.063	95.313	106.250	237.502	353855.430	278.128	
x		369218.200	44.792	125.521	94.271	102.605	230.731	359155.530	230.210	
σ		4771.085	16.707	36.220	4.774	12.137	13.104	4631.082	46.910	
%RSD		1.292	37.300	28.855	5.064	11.829	5.679	1.289	20.377	

CCV48 11/17/2011 08:56:38 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	08:57:46	8801.148	14637.704	2350.193	396.881	11874445.000	9591921.500	1407238.900	1710581.000	2511746.900
2	08:58:53	8727.665	14903.603	2295.497	379.693	12080701.000	9769927.500	1432778.200	1750253.000	2575180.300
3	09:00:01	8846.488	14712.781	2409.578	378.130	12138691.000	9800495.200	1430438.400	1738354.400	2557152.300
x		8791.767	14751.363	2351.756	384.901	12031279.000	9720781.400	1423485.200	1733062.800	2548026.500
σ		59.964	137.084	57.057	10.404	138882.580	112637.710	14118.220	20358.443	32686.531
%RSD		0.682	0.929	2.426	2.703	1.154	1.159	0.992	1.175	1.283
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	08:57:46	30159.928	144565.290	29593.120	142911.270	7866612.400	36242.791	597111.000	62939.908	19338.080
2	08:58:53	30805.053	146410.500	30153.665	145225.050	7965235.100	36769.133	605213.360	61842.945	19569.645
3	09:00:01	30216.297	145943.250	29796.667	146134.250	7972380.400	36764.434	609862.770	62114.432	19513.318
x		30393.759	145639.680	29847.817	144756.860	7934742.600	36592.119	604062.380	62299.095	19473.681
σ		357.304	959.333	283.752	1661.720	59110.589	302.536	6453.334	571.321	120.764
%RSD		1.176	0.659	0.951	1.148	0.745	0.827	1.068	0.917	0.620
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	08:57:46	300371.840	270324.290	34436.769	1014390.700	765723.510	16596251.000	426752.180	345453.500	75213.101
2	08:58:53	305055.460	276114.710	35382.826	1027429.600	777160.730	16877092.000	432331.870	348730.120	77090.255
3	09:00:01	303430.780	275520.590	34900.392	1027099.200	775444.580	16825493.000	433093.480	349223.200	77395.021
x		302952.690	273986.530	34906.662	1022973.200	772776.270	16766278.000	430725.840	347802.270	76566.125
σ		2378.134	3185.478	473.060	7434.442	6167.856	149491.400	3462.299	2048.983	1181.621
%RSD		0.785	1.163	1.355	0.727	0.798	0.892	0.804	0.589	1.543
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	08:57:46	378821.030	181881.760	123059.000	55590.764	3195.670	3195.670	10294.854	4259.489	13.542
2	08:58:53	381611.010	184371.180	123438.820	55925.400	3165.976	3165.976	10220.321	4351.183	15.625
3	09:00:01	383827.020	185651.670	124999.170	55563.052	3231.616	3231.616	10300.066	4211.558	13.021
x		381419.690	183968.200	123832.330	55693.072	3197.754	3197.754	10271.747	4274.077	14.063
σ		2508.476	1916.988	1028.206	201.678	32.869	32.869	44.612	70.946	1.378
%RSD		0.658	1.042	0.830	0.362	1.028	1.028	0.434	1.660	9.799
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	08:57:46	54891.192	96727.928	104050.990	61318.818	157094.970	3.125	146953.530	5962.181	298725.350
2	08:58:53	55095.099	98571.717	105749.330	62145.818	160022.510	3.125	145918.000	6138.819	302690.320
3	09:00:01	56406.452	98935.154	105944.520	61916.701	160427.010	1.563	145286.610	6123.187	303537.710
x		55464.248	98078.266	105248.280	61793.779	159181.500	2.604	146052.710	6074.729	301651.120
σ		822.318	1183.462	1041.466	426.983	1818.266	0.902	841.586	97.782	2568.978
%RSD		1.483	1.207	0.990	0.691	1.142	34.641	0.576	1.610	0.852
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	08:57:46	4477.264	4477.264	292487.310	68929.959	191740.680	282571.960	278738.370	497057.250	358665.360
2	08:58:53	4666.387	4666.387	296493.630	69722.855	193511.190	288491.650	284309.050	507084.980	354396.730
3	09:00:01	4763.294	4763.294	294769.440	69459.075	195342.100	289151.670	283700.250	503864.610	352137.180
x		4635.648	4635.648	294583.460	69370.630	193531.320	286738.430	282249.220	502668.950	355066.420
σ		145.471	145.471	2009.629	403.780	1800.797	3623.327	3055.687	5119.669	3315.214
%RSD		3.138	3.138	0.682	0.582	0.930	1.264	1.083	1.018	0.934
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	08:57:46	377714.170	547847.790	1331885.900	442300.470	413730.540	983170.450	358638.130	2433839.700	
2	08:58:53	374966.630	558974.430	1349981.300	446329.160	420318.730	1002808.100	354166.110	2473371.700	
3	09:00:01	372277.340	555511.970	1345091.400	445581.350	420013.060	1000349.000	355428.130	2464836.700	
x		374986.040	554111.400	1342319.500	444736.990	418020.770	995442.510	356077.460	2457349.400	
σ		2718.466	5694.007	9360.725	2142.961	3718.596	10698.801	2305.634	20802.421	
%RSD		0.725	1.028	0.697	0.482	0.890	1.075	0.648	0.847	

CCB48 11/17/2011 09:04:31 AM

User Pre-dilution: 1.00

Run	Time	6Li	9Be	10B	13C	23Na	24Mg	25Mg	26Mg	27Al
1	09:05:39	8788.640	21.875	51.563	279.690	172742.810	6306.079	870.339	1068.790	14266.495
2	09:06:47	8866.813	16.667	39.063	312.503	170157.370	4238.129	612.513	746.895	13353.113
3	09:07:55	9151.368	14.583	40.625	318.754	170435.660	4003.686	501.571	692.204	12829.196
X		8935.607	17.708	43.750	303.649	171111.950	4849.298	661.474	835.963	13482.934
$\sigma$		190.899	3.756	6.811	20.983	1419.207	1267.044	189.197	203.480	727.391
%RSD		2.136	21.209	15.568	6.910	0.829	26.128	28.602	24.341	5.395
Run	Time	28Si	31P	34S	37Cl	39K	43Ca	44Ca	45Sc	47Ti
1	09:05:39	1087.541	1020.349	17241.648	148896.940	189325.980	42.188	854.713	61966.918	57.813
2	09:06:47	990.659	973.471	17053.923	148720.110	188143.320	56.250	620.326	62571.106	43.750
3	09:07:55	1006.285	1039.100	17380.879	147289.780	187709.550	29.688	665.641	62888.118	53.125
X		1028.162	1010.973	17225.484	148302.280	188392.950	42.708	713.560	62475.381	51.563
$\sigma$		52.014	33.804	164.076	881.293	836.630	13.289	124.324	468.001	7.160
%RSD		5.059	3.344	0.953	0.594	0.444	31.116	17.423	0.749	13.887
Run	Time	51V	52Cr	53Cl O	54Fe	55Mn	56Fe	57Fe	59Co	60Ni
1	09:05:39	6453.020	637.514	2109.531	4238.129	610.951	61102.268	2875.289	160.938	107.813
2	09:06:47	6131.003	646.890	2032.957	4019.315	389.068	55976.642	2806.526	134.376	81.250
3	09:07:55	5852.761	571.886	1984.513	3892.718	398.443	54318.697	2737.762	117.188	71.875
X		6145.595	618.763	2042.334	4050.054	466.154	57132.536	2806.526	137.501	86.979
$\sigma$		300.395	40.866	63.034	174.745	125.485	3536.422	68.764	22.042	18.641
%RSD		4.888	6.605	3.086	4.315	26.919	6.190	2.450	16.030	21.432
Run	Time	63Cu	65Cu	66Zn	75As	77Se	77Ar Cl	78Se	82Se	83Kr
1	09:05:39	293.753	135.938	101.563	101.563	17.188	17.188	199.481	19.271	16.667
2	09:06:47	209.377	79.688	76.563	88.021	28.125	28.125	188.022	16.667	20.313
3	09:07:55	217.189	110.938	95.313	83.854	25.000	25.000	198.960	14.583	9.375
X		240.106	108.855	91.146	91.146	23.438	23.438	195.487	16.840	15.451
$\sigma$		46.623	28.183	13.010	9.259	5.634	5.634	6.470	2.349	5.569
%RSD		19.418	25.891	14.274	10.158	24.037	24.037	3.310	13.946	36.043
Run	Time	94Mo	95Mo	96Mo	97Mo	98Mo	99Ru	103Rh	106Cd	107Ag
1	09:05:39	239.065	429.694	432.819	260.940	678.141	3.125	149441.640	84.375	159.376
2	09:06:47	179.689	335.941	325.004	173.439	487.508	0.000	150458.480	106.250	120.313
3	09:07:55	139.063	246.877	284.378	146.876	348.442	1.563	151963.350	95.313	87.500
X		185.939	337.504	347.400	193.751	504.697	1.563	150621.160	95.313	122.396
$\sigma$		50.293	91.418	76.713	59.683	165.520	1.563	1268.699	10.938	35.983
%RSD		27.048	27.087	22.082	30.804	32.796	100.000	0.842	11.475	29.399
Run	Time	108Mo O	108Cd	109Ag	111Cd	118Sn	121Sb	135Ba	137Ba	159Tb
1	09:05:39	3.125	3.125	165.626	45.313	392.193	851.588	212.502	417.194	354116.470
2	09:06:47	0.000	0.000	71.875	12.500	284.378	656.265	96.875	225.002	355788.500
3	09:07:55	3.125	3.125	87.500	18.750	239.065	464.070	104.688	185.939	356075.200
X		2.083	2.083	108.334	25.521	305.212	657.308	138.022	276.045	355326.720
$\sigma$		1.804	1.804	50.228	17.423	78.661	193.761	64.620	123.789	1057.869
%RSD		86.603	86.603	46.364	68.268	25.773	29.478	46.819	44.844	0.298
Run	Time	165Ho	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi	238U	
1	09:05:39	372785.650	287.503	695.329	331.254	350.004	760.958	365044.230	1273.494	
2	09:06:47	376177.530	189.064	435.944	198.439	189.064	406.256	366991.620	684.391	
3	09:07:55	375494.280	156.251	400.006	196.876	173.439	437.507	369022.630	632.827	
X		374819.160	210.939	510.426	242.190	237.502	534.907	367019.490	863.571	
$\sigma$		1793.897	68.306	161.136	77.136	97.742	196.389	1989.348	355.939	
%RSD		0.479	32.382	31.569	31.849	41.154	36.715	0.542	41.217	

**Daily Analysis Runlog For Sequence/QCBatch ID # LB57865**

Review By	jaswal	Review On	11/18/2011 6:33:14 PM					
STD. NAME	STD REF.#							
ICAL Standard	MP9286,MP9304,MP9291,MP9290,MP9289,MP9288							
ICV Standard	MP9301							
CCV Standard	MP9292							
ICSA Standard	MP9297,MP9298,MP9299,MP9300							
CRI Standard								
LCS Standard								
Chk Standard	MP9294,MP9302							
Sr#	SampleId	ClientID	QcType	Date	Comment	Status		
1	TUNE	TUNE	TUNE	11/16/11 23:15		OK		
2	S0	S0	CAL1	11/17/11 00:23		OK		
3	S1	S	CAL2	11/17/11 00:31		OK		
4	S2	S	CAL3	11/17/11 01:18		OK		
5	S3	S	CAL4	11/17/11 01:26		OK		
6	S4	S	CAL5	11/17/11 01:34		OK		
7	S5	S	CAL6	11/17/11 01:42		OK		
8	ICV12	ICV12	ICV	11/17/11 01:49		OK		
9	ICB12	ICB12	ICB	11/17/11 01:57		OK		
10	ICSA12	ICSA12	ICSA	11/17/11 02:05		OK		
11	ICSAB12	ICSAB12	ICSAB	11/17/11 02:13		OK		
12	ICSA12	ICSA12	ICSA	11/17/11 02:21		OK		
13	ICSAB12	ICSAB12	ICSAB	11/17/11 02:29		OK		
14	CCV44	CCV44	CCV	11/17/11 02:37		OK		
15	CCB44	CCB44	CCB	11/17/11 02:45		OK		
16	PB59234BL	PBW01	MB	11/17/11 02:53		OK		
17	PB59238BL	PBW01	MB	11/17/11 03:00		OK		
18	PB59234BS	LCS01	LCS	11/17/11 03:08		OK		
19	PB59238BS	LCS01	LCS	11/17/11 03:16		OK		
20	C4464-12	MH3BB0	SAM	11/17/11 03:24		OK		
21	C4464-13	MH3BB1	SAM	11/17/11 03:32		OK		

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Daily Analysis Runlog For Sequence/QCBatch ID # LB57865**

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STD. NAME	STD REF.#							
ICAL Standard	MP9286,MP9304,MP9291,MP9290,MP9289,MP9288							
ICV Standard	MP9301							
CCV Standard	MP9292							
ICSA Standard	MP9297,MP9298,MP9299,MP9300							
CRI Standard								
LCS Standard								
Chk Standard	MP9294,MP9302							
22	C4464-14	MH3BB2	SAM	11/17/11 03:40		OK		
23	C4464-12	MH3BB0	SAM	11/17/11 03:48	Do not use	OK		
24	C4464-13	MH3BB1	SAM	11/17/11 03:56	Do not use	OK		
25	C4464-14	MH3BB2	SAM	11/17/11 04:04	Do not use	OK		
26	CCV45	CCV45	CCV	11/17/11 04:12		OK		
27	CCB45	CCB45	CCB	11/17/11 04:19		OK		
28	C4464-15	MH3BB3	SAM	11/17/11 04:27		OK		
29	C4464-17	MH3BB5	SAM	11/17/11 04:35		OK		
30	C4464-15	MH3BB3	SAM	11/17/11 04:43	Do not use	OK		
31	C4464-17	MH3BB5	SAM	11/17/11 04:51	Do not use	OK		
32	C4464-01	MH3BA1	SAM	11/17/11 04:59	Na, Mg & K high	Dilution		
33	C4464-02	MH3BA2	SAM	11/17/11 05:07	Ca, Mg, Mn and Na high	Dilution		
34	C4464-03	MH3BA3	SAM	11/17/11 05:15	Na high	Dilution		
35	C4464-01	MH3BA1	SAM	11/17/11 05:23	25X dilution for Na, Mg and K	OK		
36	C4464-02	MH3BA2	SAM	11/17/11 05:31	25X dilution for Ca, Mg, Mn and Na	OK		
37	C4464-03	MH3BA3	SAM	11/17/11 05:38	25X dilution for Na	OK		
38	CCV46	CCV46	CCV	11/17/11 05:46		OK		
39	CCB46	CCB46	CCB	11/17/11 05:54		OK		
40	C4464-04	MH3BA4	SAM	11/17/11 06:02	Ca, Mg, Mn and Na high	Dilution		
41	C4464-05	MH3BA5	SAM	11/17/11 06:10	Mn & Na high	Dilution		
42	C4464-09	MH3BA7	SAM	11/17/11 06:18	Mn & Na high	Dilution		
43	C4464-10	MH3BA8	SAM	11/17/11 06:26	Mn & Na high	Dilution		

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Daily Analysis Runlog For Sequence/QCBatch ID # LB57865**

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STD. NAME	STD REF.#							
ICAL Standard	MP9286,MP9304,MP9291,MP9290,MP9289,MP9288							
ICV Standard	MP9301							
CCV Standard	MP9292							
ICSA Standard	MP9297,MP9298,MP9299,MP9300							
CRI Standard								
LCS Standard								
Chk Standard	MP9294,MP9302							
44	C4464-11	MH3BA9	SAM	11/17/11 06:34	Mn & Na high	Dilution		
45	C4464-04	MH3BA4	SAM	11/17/11 06:42	25X dilution for Na, Mg and K	OK		
46	C4464-05	MH3BA5	SAM	11/17/11 06:50	25X dilution for Mn & Na	OK		
47	C4464-09	MH3BA7	SAM	11/17/11 06:57	25X dilution for Mn & Na	OK		
48	C4464-10	MH3BA8	SAM	11/17/11 07:05	25X dilution for Mn & Na	OK		
49	C4464-11	MH3BA9	SAM	11/17/11 07:13	25X dilution for Mn & Na	OK		
50	CCV47	CCV47	CCV	11/17/11 07:21		OK		
51	CCB47	CCB47	CCB	11/17/11 07:29		OK		
52	C4464-16	MH3BB4	SAM	11/17/11 07:37	Na high	Dilution		
53	C4464-06	MH3BA6	SAM	11/17/11 07:45	Na high	Dilution		
54	C4464-07	MH3BA6D	DUP	11/17/11 07:53	Na high	Dilution		
55	C4464-08	MH3BA6S	MS	11/17/11 08:01	Na high	Dilution		
56	C4464-06L	MH3BA6L	SD	11/17/11 08:09	Na high	Dilution		
57	C4464-16	MH3BB4	SAM	11/17/11 08:16	25X dilution for Na	OK		
58	C4464-06	MH3BA6	SAM	11/17/11 08:24	25X dilution for Na	OK		
59	C4464-07	MH3BA6D	DUP	11/17/11 08:32	25X dilution for Na	OK		
60	C4464-08	MH3BA6S	MS	11/17/11 08:40	25X dilution for Na	OK		
61	C4464-06L	MH3BA6L	SD	11/17/11 08:48	25X dilution for Na	OK		
62	CCV48	CCV48	CCV	11/17/11 08:56		OK		
63	CCB48	CCB48	CCB	11/17/11 09:04		OK		

# CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

## Prep Standard - Chemical Standard Summary

**Project ID :** c4464

**Test :** Metals CLP MS

**Prepbatch ID :** PB59234

**Sequence ID/Qc Batch ID:** LB57865

**Standard ID :**

MP8463, MP8992, MP9104, MP9096, MP9118, MP9286, MP9288, MP9287, MP9289, MP9290, MP9291, MP9292, MP9294, M  
P9293, MP9297, MP9298, MP9299, MP9300, MP9301, MP9302, MP9304, MP9303, MP8463, MP8992, MP9096, MP9104, MP9  
118, MP9286, MP9287, MP9288, MP9289, MP9290, MP9291, MP9292, MP9293, MP9294, MP9297, MP9298, MP9299, MP930  
0, MP9301, MP9302, MP9303, MP9304,

**Chemical ID :**

W1152, M2000, M2058, M1682, M1713, M1673, M1659, M1671, M1672, M1824, M1866, M1662, M1665, M1657, M1681, M1683  
, M1825, M1656, M1655, M1679, M1660, M1675, M1669, M1700, M1676, M1670, M1677, M1674, M1974, M2068, M2052, M185  
7, M1861, M2094, M2080, M1971, M1680, M1709, M1900, M2024, M1623, M1956, M1957, M1860, M1955, M2072, M1859, M16  
23, M1655, M1656, M1657, M1659, M1660, M1662, M1665, M1669, M1670, M1671, M1672, M1673, M1674, M1675, M1676, M1  
677, M1679, M1680, M1681, M1682, M1683, M1700, M1709, M1713, M1824, M1825, M1857, M1859, M1860, M1861, M1866, M  
1900, M1955, M1956, M1957, M1971, M1974, M2000, M2024, M2052, M2058, M2068, M2072, M2080, M2094, W1152,

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**Metals STANDARD PREPARATION LOG**

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
170	1:1HCL	<a href="#">MP8463</a>	09/16/2011	03/16/2012	narendra

**FROM** 1250.00000ml of DI Water(W1152) + 1250.00000ml of Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)  
(M2000) = Final Quantity: 2500.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
169	1:1HNO3	<a href="#">MP8992</a>	10/25/2011	04/25/2012	narendra

**FROM** 1250.00000ml of DI Water(W1152) + 1250.00000ml of Nitric Acid, Instra-Analyzed (cs/4x2.5L)(M2058)  
= Final Quantity: 2500.000 ml

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**Metals STANDARD PREPARATION LOG**

<u>RecipID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration D</u>	<u>Prepared By</u>
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	<a href="#">MP9096</a>	11/02/2011	11/16/2011	jaswal
<b>FROM</b>	10.00000ml of Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)(M2068) + 1970.00000ml of DI Water(W1152) + 20.00000ml of Nitric Acid, Instra-Analyzed (cs/4x2.5L)(M2052) = Final Quantity: 2000.000 ml				

<u>RecipID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration D</u>	<u>Prepared By</u>
1120	ICPMS ISM01.2 S1(CONC.)	<a href="#">MP9104</a>	11/02/2011	11/16/2011	jaswal
<b>FROM</b>	0.05000ml of ARSENIC 125mL 1000ug/mL(M1673) + 0.05000ml of BERYLLIUM 125mL 1000ug/mL(M1671) + 0.05000ml of CADMIUM, 125mL 1000ug/mL(M1672) + 0.05000ml of COBALT 125mL 1000ug/mL(M1665) + 0.05000ml of LEAD 125mL 1000ug/mL(M1683) + 0.05000ml of MANGANESE, 125mL 1000ug/mL(M1656) + 0.05000ml of NICKEL 125mL 1000ug/mL(M1655) + 0.05000ml of SILVER 125mL 1000ug/mL(M1675) + 0.05000ml of Strontium, 125 ml, 1000 PPM(M1700) + 0.05000ml of THALLIUM 125mL 1000ug/mL(M1676) + 0.05000ml of Thorium 1000 ug/ml(M1670) + 0.05000ml of Uranium 1000 ug/ml(M1677) + 0.10000ml of Aluminium, Al, 125 ml, 10,000 ug/ml(M1682) + 0.10000ml of ANTIMONY HF, 125mL 1,000ug/mL(M1713) + 0.10000ml of CHROMIUM(+3) 125mL 1000ug/mL(M1662) + 0.10000ml of COPPER 125mL 1000ug/mL(M1657) + 0.10000ml of ZINC 125mL 1000ug/mL(M1974) + 0.25000ml of CHEM-CLP-4/.25L(M1866) + 0.25000ml of SELENIUM 125mL 1000ug/mL(M1660) + 0.25000ml of VANADIUM 125mL 1000ug/mL(M1674) + 0.50000ml of BARIUM 125mL 1000ug/mL(M1659) + 1.00000ml of IRON 125mL 10,000ug/mL(M1681) + 2.50000ml of CALCIUM 125mL 10,000ug/mL(M1824) + 2.50000ml of MAGNESIUM 125mL 10,000ug/mL(M1825) + 2.50000ml of POTASSIUM 125mL 10,000ug/mL(M1679) + 2.50000ml of SODIUM 125mL 10,000ug/mL(M1669) + 236.65000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9096) = Final Quantity: 250.000 ml				

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## Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
870	ICPMS SPIKE SOL.B	<a href="#">MP9118</a>	11/02/2011	11/16/2011	jaswal
<p><b>FROM</b> 5.00000ml of SOIL/WATER SPIKE SOLN 1, 125mL(M1857) + 5.00000ml of SOIL/WATER SPIKE SOLN 4, 125mL(M1861) + 40.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9096) = Final Quantity: 50.000 ml</p>					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	<a href="#">MP9286</a>	11/16/2011	11/30/2011	jaswal
<p><b>FROM</b> 10.00000ml of Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)(M2094) + 1970.00000ml of DI Water(W1152) + 20.00000ml of Nitric Acid, Instra-Analyzed (cs/4x2.5L)(M2080) = Final Quantity: 2000.000 ml</p>					

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**Metals STANDARD PREPARATION LOG**

<u>RecipeID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration D</u>	<u>Prepared By</u>
1125	SOL.C(100PPM) ISM01.2	<a href="#">MP9287</a>	11/16/2011	11/30/2011	jaswal
<b>FROM</b> 2.50000ml of CHEM-CLP-4/.25L(M1866) + 22.50000ml of ICPMS CALIB BLANK(S0/ICB/CCB) (MP9286) = Final Quantity: 25.000 ml					

<u>RecipeID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration D</u>	<u>Prepared By</u>
1426	S5 ICPMS ISM01.2	<a href="#">MP9288</a>	11/16/2011	11/30/2011	jaswal
<b>FROM</b> 0.01000ml of STRONTIUM 1 X 125 ml(M1709) + 0.10000ml of COPPER 125mL 1000ug/mL(M1657) + 0.10000ml of MANGANESE, 125mL 1000ug/mL(M1656) + 0.10000ml of Thorium 1000 ug/ml(M1670) + 0.10000ml of Uranium 1000 ug/ml(M1677) + 0.10000ml of ZINC 125mL 1000ug/mL(M1974) + 0.19000ml of Aluminium, Al, 125 ml, 10,000 ug/ml(M1682) + 0.20000ml of Phosphorus, 125 ml, 10000 ug/ml(M1680) + 0.20000ml of SULFUR 125mL 10,000ug/mL(M1900) + 0.40000ml of BARIUM 125mL 1000ug/mL(M1659) + 0.49000ml of IRON 125mL 10,000ug/mL(M1681) + 0.49000ml of POTASSIUM 125mL 10,000ug/mL(M1679) + 0.99000ml of CALCIUM 125mL 10,000ug/mL(M1824) + 0.99000ml of MAGNESIUM 125mL 10,000ug/mL(M1825) + 0.99000ml of SODIUM 125mL 10,000ug/mL(M1669) + 5.00000ml of Calibration Standard Method 6020(M1971) + 1.00000ml of SOL.C(100PPM) ISM01.2(MP9287) + 88.55000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) = Final Quantity: 100.000 ml					

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## Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1427	S4 ICPMS ISM01.2	<a href="#">MP9289</a>	11/16/2011	11/30/2011	jaswal
<p><b>FROM</b> 25.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) + 25.00000ml of S5 ICPMS ISM01.2(MP9288) = Final Quantity: 50.000 ml</p>					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1428	S3 ICPMS ISM01.2	<a href="#">MP9290</a>	11/16/2011	11/30/2011	jaswal
<p><b>FROM</b> 12.50000ml of S5 ICPMS ISM01.2(MP9288) + 37.50000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) = Final Quantity: 50.000 ml</p>					

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**Metals STANDARD PREPARATION LOG**

<u>RecipeID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration D</u>	<u>Prepared By</u>
1429	S2 ICPMS ISM01.2	<a href="#">MP9291</a>	11/16/2011	11/30/2011	jaswal

**FROM** 43.75000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) + 6.25000ml of S5 ICPMS ISM01.2(MP9288) = Final Quantity: 50.000 ml

<u>RecipeID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration D</u>	<u>Prepared By</u>
1430	CCV ICPMS ISM01.2	<a href="#">MP9292</a>	11/16/2011	11/30/2011	jaswal

**FROM** 0.02500ml of STRONTIUM 1 X 125 ml(M1709) + 0.25000ml of COPPER 125mL 1000ug/mL(M1657) + 0.25000ml of MANGANESE, 125mL 1000ug/mL(M1656) + 0.25000ml of Thorium 1000 ug/ml(M1670) + 0.25000ml of Uranium 1000 ug/ml(M1677) + 0.25000ml of ZINC 125mL 1000ug/mL(M1974) + 0.47500ml of Aluminium, Al, 125 ml, 10,000 ug/ml(M1682) + 0.50000ml of Phosphorus, 125 ml, 10000 ug/ml(M1680) + 0.50000ml of SULFUR 125mL 10,000ug/mL(M1900) + 1.00000ml of BARIUM 125mL 1000ug/mL(M1659) + 1.22500ml of IRON 125mL 10,000ug/mL(M1681) + 1.22500ml of POTASSIUM 125mL 10,000ug/mL(M1679) + 12.50000ml of Calibration Standard Method 6020(M1971) + 2.47500ml of CALCIUM 125mL 10,000ug/mL(M1824) + 2.47500ml of MAGNESIUM 125mL 10,000ug/mL(M1825) + 2.47500ml of SODIUM 125mL 10,000ug/mL(M1669) + 2.50000ml of SOL.C(100PPM) ISM01.2(MP9287) + 471.37500ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) = Final Quantity: 500.000 ml

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## Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1135	MG 10PPM ILM05.4 FOR TUNE	<a href="#">MP9293</a>	11/16/2011	11/30/2011	jaswal
<p><b>FROM</b> 0.10000ml of MAGNESIUM 125mL 10,000ug/mL(M1623) + 99.90000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) = Final Quantity: 100.000 ml</p>					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1172	TUNE SOL 100PPB ICPMS	<a href="#">MP9294</a>	11/16/2011	11/30/2011	jaswal
<p><b>FROM</b> 1.00000ml of TUNE-A,(M2024) + 1.00000ml of MG 10PPM ILM05.4 FOR TUNE(MP9293) + 98.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) = Final Quantity: 100.000 ml</p>					

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## Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1142	ICSA ICPMS	<a href="#">MP9297</a>	11/16/2011	11/30/2011	jaswal

**FROM** 5.00000ml of ICSA ( ICPMS ) STOCK SOLN(M1956) + 45.00000ml of ICPMS CALIB  
BLANK(S0/ICB/CCB)(MP9286) = Final Quantity: 50.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1143	ICSAB ICPMS	<a href="#">MP9298</a>	11/16/2011	11/30/2011	jaswal

**FROM** 5.00000ml of ICSA ( ICPMS ) STOCK SOLN(M1956) + 5.00000ml of ICSB (ICPMS) STOCK  
SOLUTION(M1957) + 40.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) = Final Quantity:  
50.000 ml

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## Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1165	ICSAX10	<a href="#">MP9299</a>	11/16/2011	11/30/2011	jaswal

**FROM** 45.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) + 5.00000ml of ICSA ICPMS(MP9297) =  
Final Quantity: 50.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1166	ICSABX10	<a href="#">MP9300</a>	11/16/2011	11/30/2011	jaswal

**FROM** 45.00000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) + 5.00000ml of ICSAB ICPMS(MP9298)  
= Final Quantity: 50.000 ml

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## Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1575	ICV ISM01.2 MS	<a href="#">MP9301</a>	11/16/2011	11/30/2011	jaswal

**FROM** 0.02500ml of CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti(M1860) + 1.00000ml of ICV ( ICP/ICPMS ) STOCK SOLN (M1955) + 48.97500ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) = Final Quantity: 50.000 ml

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
857	ICPMS INT. STANDARD	<a href="#">MP9302</a>	11/16/2011	11/30/2011	jaswal

**FROM** 2450.00000ml of DI Water(W1152) + 25.00000ml of 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y(M2072) + 25.00000ml of Nitric Acid, Instra-Analyzed (cs/4x2.5L)(M2080) = Final Quantity: 2500.000 ml

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## Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1120	ICPMS ISM01.2 S1(CONC.)	<a href="#">MP9303</a>	11/16/2011	11/30/2011	jaswal
<b>FROM</b>	0.05000ml of ARSENIC 125mL 1000ug/mL(M1673) + 0.05000ml of BERYLLIUM 125mL 1000ug/mL(M1671) + 0.05000ml of CADMIUM, 125mL 1000ug/mL(M1672) + 0.05000ml of COBALT 125mL 1000ug/mL(M1665) + 0.05000ml of LEAD 125mL 1000ug/mL(M1683) + 0.05000ml of MANGANESE, 125mL 1000ug/mL(M1656) + 0.05000ml of NICKEL 125mL 1000ug/mL(M1655) + 0.05000ml of SILVER 125mL 1000ug/mL(M1675) + 0.05000ml of Strontium, 125 ml, 1000 PPM(M1700) + 0.05000ml of THALLIUM 125mL 1000ug/mL(M1676) + 0.05000ml of Thorium 1000 ug/ml(M1670) + 0.05000ml of Uranium 1000 ug/ml(M1677) + 0.10000ml of Aluminium, Al, 125 ml, 10,000 ug/ml(M1682) + 0.10000ml of ANTIMONY HF, 125mL 1,000ug/mL(M1859) + 0.10000ml of CHROMIUM(+3) 125mL 1000ug/mL(M1662) + 0.10000ml of COPPER 125mL 1000ug/mL(M1657) + 0.10000ml of ZINC 125mL 1000ug/mL(M1974) + 0.25000ml of CHEM-CLP-4/.25L(M1866) + 0.25000ml of SELENIUM 125mL 1000ug/mL(M1660) + 0.25000ml of VANADIUM 125mL 1000ug/mL(M1674) + 0.50000ml of BARIUM 125mL 1000ug/mL(M1659) + 1.00000ml of IRON 125mL 10,000ug/mL(M1681) + 2.50000ml of CALCIUM 125mL 10,000ug/mL(M1824) + 2.50000ml of MAGNESIUM 125mL 10,000ug/mL(M1825) + 2.50000ml of POTASSIUM 125mL 10,000ug/mL(M1679) + 2.50000ml of SODIUM 125mL 10,000ug/mL(M1669) + 236.65000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) = Final Quantity: 250.000 ml				
1130	ICPMS ISM01.2 S1	<a href="#">MP9304</a>	11/16/2011	11/30/2011	jaswal
<b>FROM</b>	0.25000ml of ICPMS ISM01.2 S1(CONC.)(MP9303) + 49.75000ml of ICPMS CALIB BLANK(S0/ICB/CCB)(MP9286) = Final Quantity: 50.000 ml				

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**Metals CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMG10-1 / MAGNESIUM 125mL 10,000ug/mL	D2-MG03086	12/01/2011	11/30/2010 / jaswal	11/12/2010 / jaswal	M1623
Inorganic Ventures	CGNI1-1 / NICKEL 125mL 1000ug/mL	C2-NI02062	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1655
Inorganic Ventures	CGMN1-1 / MANGANESE, 125mL 1000ug/mL	D2-MN02079	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1656
Inorganic Ventures	CGCU1-1 / COPPER 125mL 1000ug/mL	D2-CU02121	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1657
Inorganic Ventures	CGBA1-1 / BARIUM 125mL 1000ug/mL	D2-BA02055	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1659
Inorganic Ventures	CGSE(4)1-1 / SELENIUM 125mL 1000ug/mL	D2-SE02020	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1660

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**Metals CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGCR(3)1-1 / CHROMIUM(+3) 125mL 1000ug/mL	D2-CR03042	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1662
Inorganic Ventures	CGCO1-1 / COBALT 125mL 1000ug/mL	D2-CO02027	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1665
Inorganic Ventures	CGNA10-1 / SODIUM 125mL 10,000ug/mL	D2-NA03080	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1669
Inorganic Ventures	CGTH1-1 / Thorium 1000 ug/ml	C2-TH01079	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1670
Inorganic Ventures	CGBE1-1 / BERYLLIUM 125mL 1000ug/mL	D2-BE02003	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1671
Inorganic Ventures	CGCD1-1 / CADMIUM, 125mL 1000ug/mL	D2-CD02027	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1672

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**Metals CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGAS1-1 / ARSENIC 125mL 1000ug/mL	D2-AS02066	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1673
Inorganic Ventures	CGV1-1 / VANADIUM 125mL 1000ug/mL	D2-V02065	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1674
Inorganic Ventures	CGAG1-1 / SILVER 125mL 1000ug/mL	D2-AG03004	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1675
Inorganic Ventures	CGTL1-1 / THALLIUM 125mL 1000ug/mL	D2-TL01111	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1676
Inorganic Ventures	CGU1-1 / Uranium 1000 ug/ml	D2O01084	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1677
Inorganic Ventures	CGK10-1 / POTASSIUM 125mL 10,000ug/mL	D2-K03011	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1679

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**Metals CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGP10-1 / Phosphorus, 125 ml, 10000 ug/ml	D2-P02026	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1680
Inorganic Ventures	CGFE10-1 / IRON 125mL 10,000ug/mL	D2-FE03115	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1681
Inorganic Ventures	CGAL10-1 / Aluminium, Al, 125 ml, 10,000 ug/ml	D2-AL04086	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1682
Inorganic Ventures	CGPB1-1 / LEAD 125mL 1000ug/mL	D2PB03020	12/01/2011	11/29/2010 / chirag	11/29/2010 / chirag	M1683
Inorganic Ventures	CGSR1-1 / Strontium, 125 ml, 1000 PPM	c2-sr02024	01/01/2012	12/14/2010 / danuta	12/13/2010 / danuta	M1700
Inorganic Ventures	CGSR10-1 / STRONTIUM 1 X 125 ml	D2-SR02025	01/01/2012	12/17/2010 / danuta	12/17/2010 / danuta	M1709

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**Metals CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSBF1-1 / ANTIMONY HF, 125mL 1,000ug/mL	D2-SB02125	02/01/2012	01/07/2011 / kchoi	01/05/2011 / kchoi	M1713
Inorganic Ventures	CGCA10-1 / CALCIUM 125mL 10,000ug/mL	d2-ca04008	05/01/2012	04/18/2011 / danuta	04/15/2011 / danuta	M1824
Inorganic Ventures	CGMG10-1 / MAGNESIUM 125mL 10,000ug/mL	d2-mg03095	05/01/2012	04/18/2011 / danuta	04/15/2011 / danuta	M1825
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	D2-MEB324145	06/01/2012	05/11/2011 / danuta	05/09/2011 / danuta	M1857
Inorganic Ventures	CGSBF1-1 / ANTIMONY HF, 125mL 1,000ug/mL	D2-SB02125	06/01/2012	05/11/2011 / danuta	05/09/2011 / danuta	M1859
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	E2-MEB374039	06/01/2012	05/11/2011 / danuta	05/09/2011 / danuta	M1860

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**Metals CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	A2-MEB194140	06/01/2012	05/11/2011 / danuta	05/09/2011 / danuta	M1861
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	E2-MEB374038	06/01/2012	05/11/2011 / danuta	05/09/2011 / danuta	M1866
Inorganic Ventures	CGS10-1 / SULFUR 125mL 10,000ug/mL	D2-S01113	06/01/2012	06/06/2011 / danuta	05/27/2011 / danuta	M1900
EPA	ICV-1 (0307) / ICV ( ICP/ICPMS ) STOCK SOLN	ICV1-0307	01/17/2012	07/18/2011 / jaswal	07/18/2011 / jaswal	M1955
EPA	PART A (0803) / ICSA ( ICPMS ) STOCK SOLN	ICSA-0803	01/17/2012	07/18/2011 / jaswal	07/18/2011 / jaswal	M1956
EPA	/ ICSB (ICPMS) STOCK SOLUTION	ICSB-0803	01/17/2012	07/18/2011 / jaswal	07/18/2011 / jaswal	M1957

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**Metals CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	D2-MEB335101	07/01/2012	07/23/2011 / jaswal	06/24/2011 / jaswal	M1971
Inorganic Ventures	CGZN1-1 / ZINC 125mL 1000ug/mL	D2-ZN02065	02/01/2012	06/20/2011 / jaswal	01/28/2011 / jaswal	M1974
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	K24040	08/24/2016	09/16/2011 / narendra	08/24/2011 / NARENDRA	M2000
Inorganic Ventures	IV-STOCK-12 / TUNE-A,	E2-MEB372150	10/01/2012	09/22/2011 / jaswal	09/09/2011 / jaswal	M2024
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	J12036	10/05/2016	11/01/2011 / narendra	10/05/2011 / narendra	M2052
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	J14036	10/05/2016	10/25/2011 / narendra	10/05/2011 / narendra	M2058

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**Metals CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	K28022	10/05/2016	10/28/2011 / narendra	10/05/2011 / narendra	M2068
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	E2-MEB365110	11/01/2012	10/22/2011 / jaswal	10/07/2011 / jaswal	M2072
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	K23022	10/19/2016	11/16/2011 / narendra	10/19/2011 / narendra	M2080
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	k29026	11/11/2016	11/16/2011 / narendra	11/11/2011 / narendra	M2094
Seidler Chemical	DIW / DI Water	Lab certified	02/23/2015	02/23/2010 /	02/23/2010 / divya	W1152



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# CERTIFICATE OF ANALYSIS

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<b>2.0</b>	<b>DESCRIPTION OF CRM</b>	10000 µg/mL Sulfur in H <sub>2</sub> O
	Catalog Number:	CGS10-1, CGS10-2 and CGS10-5
	Lot Number:	D2-S01113
	Starting Material:	H <sub>2</sub> SO <sub>4</sub>
	Starting Material Purity (%):	99.999985
	Starting Material Lot No.:	G42027
	Matrix:	H <sub>2</sub> O

## CERTIFIED VALUES AND UNCERTAINTIES

**Certified Concentration:** 10,044 ± 63 µg/mL -weighted mean

**Certified Density:** 1.018 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$\Sigma s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

$$\text{Uncertainty } (\pm) = \frac{2}{\sqrt{n}} \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}}$$

## 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

**4.1** Assay Method #1 10,044 ± 20 µg/mL  
Acidimetric NIST SRM 84k Lot Number: 84k

Assay Method #2 10,044 ± 56 µg/mL  
ICP Assay NIST SRM 3154 Lot Number: 892205

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R: 08/24/2011

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210311

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**2.0 DESCRIPTION OF CRM** Stock Solution

Catalog No.: 6020CAL-1

Lot Number: D2-MEB335101

Matrix: tr. HF, 5% HNO<sub>3</sub>(v/v)

20 µg/mL ea:

Ag,	Al,	As,	Ba,	Be,	Ca,	Cd,	Co,	Cr3,	Cu,	Fe,	K,	Mg,	Mn,	Na,
Ni,	Pb,	Sb,	Se,	Tl,	V,	Zn								

### 3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	20.00 ± 0.07 µg/mL	Antimony, Sb	20.00 ± 0.06 µg/mL	Arsenic, As	20.00 ± 0.07 µg/mL
Barium, Ba	20.00 ± 0.03 µg/mL	Beryllium, Be	20.00 ± 0.08 µg/mL	Cadmium, Cd	20.00 ± 0.04 µg/mL
Calcium, Ca	20.01 ± 0.05 µg/mL	Chromium+3, Cr3	20.00 ± 0.07 µg/mL	Cobalt, Co	20.00 ± 0.08 µg/mL
Copper, Cu	20.00 ± 0.04 µg/mL	Iron, Fe	20.00 ± 0.06 µg/mL	Lead, Pb	20.00 ± 0.05 µg/mL
Magnesium, Mg	20.01 ± 0.05 µg/mL	Manganese, Mn	20.00 ± 0.11 µg/mL	Nickel, Ni	20.00 ± 0.05 µg/mL
Potassium, K	20.01 ± 0.05 µg/mL	Selenium, Se	20.00 ± 0.04 µg/mL	Silver, Ag	20.00 ± 0.02 µg/mL
Sodium, Na	20.01 ± 0.04 µg/mL	Thallium, Tl	20.00 ± 0.04 µg/mL	Vanadium, V	20.00 ± 0.06 µg/mL
Zinc, Zn	20.00 ± 0.09 µg/mL				

**Certified Density:** 1.027 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}} / n^{\frac{1}{2}}$$



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**2.0 DESCRIPTION OF CRM      1000 µg/mL Silver in 5% (v/v) HNO<sub>3</sub>**

Catalog Number: CGAG1-1, CGAG1-2, and CGAG1-5  
Lot Number: D2-AG03004  
Starting Material: Ag shot  
Starting Material Purity (%): 99.991024  
Starting Material Lot No: E308AGA1  
Matrix: 5% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1,000 ± 2 µg/mL

**Certified Density:** 1.025 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Certified Value ( $\bar{x}$ ) =  $\frac{\sum x_i}{n}$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

Uncertainty ( $\pm$ ) =  $\frac{2 \left[ \left( \sum s_i \right)^2 \right]^{1/2}}{(n)^{1/2}}$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

**4.1 Assay Method #1      1,002 ± 3 µg/mL**

ICP Assay NIST SRM 3151 Lot Number: 992212

**Assay Method #2      1,000 ± 2 µg/mL**

Volhard NIST SRM 999b Lot Number: 999b

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**2.0 DESCRIPTION OF CRM      10000 µg/mL Aluminum in 7% (v/v) HNO<sub>3</sub>**

Catalog Number: CGAL10-1, CGAL10-2, and CGAL10-5  
 Lot Number: D2-AL04086  
 Starting Material: Al ingot  
 Starting Material Purity (%): 99.999682  
 Starting Material Lot No: 1502  
 Matrix: 7% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 10,031 ± 30 µg/mL

**Certified Density:** 1.085 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}}}{(n)^{\frac{1}{2}}}$$

S<sub>i</sub> = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

**4.1 Assay Method #1      9,997 ± 39 µg/mL**

ICP Assay NIST SRM 3101a Lot Number: 060502

**Assay Method #2      10,031 ± 30 µg/mL**

EDTA NIST SRM 928 Lot Number: 928



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**2.0 DESCRIPTION OF CRM      1000 µg/mL Arsenic in 2% (v/v) HNO<sub>3</sub>**

Catalog Number: CGAS1-1, CGAS1-2, and CGAS1-5  
 Lot Number: D2-AS02066  
 Starting Material: As pieces  
 Starting Material Purity (%): 99.999032  
 Starting Material Lot No: R1107ASB1  
 Matrix: 2% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 999 ± 5 µg/mL

**Certified Density:** 1.011 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \frac{(\sum s_i)^2}{n} \right]^{\frac{1}{2}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

**4.1 Assay Method #1      999 ± 5 µg/mL**

ICP Assay NIST SRM 3103a Lot Number: 010713

**Assay Method #2      1,000 ± 5 µg/mL**

Calculated NIST SRM Lot Number: See Sec. 4.2

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**2.0 DESCRIPTION OF CRM      1000 µg/mL Barium in 0.1% (v/v) HNO<sub>3</sub>**

Catalog Number: CGBA1-1, CGBA1-2, and CGBA1-5

Lot Number: D2-BA02055

Starting Material: Ba(NO<sub>3</sub>)<sub>2</sub>

Starting Material Purity (%): 99.999842

Starting Material Lot No: 1514

Matrix: 0.1% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1,007 ± 3 µg/mL

**Certified Density:** 1.000 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i^2 \right)^{1/2} \right] / (n)^{1/2}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references; usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

**4.1 Assay Method #1      1,002 ± 4 µg/mL**

ICP Assay NIST SRM 3104a Lot Number: 070222

**Assay Method #2      1,007 ± 3 µg/mL**

Gravimetric NIST SRM Lot Number: See Sec. 4.2



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**2.0 DESCRIPTION OF CRM      1000 µg/mL Beryllium in 3% (v/v) HNO<sub>3</sub>**

Catalog Number: CGBE1-1, CGBE1-2, and CGBE1-5  
 Lot Number: D2-BE02003  
 Starting Material: Be(OOCCH<sub>3</sub>)<sub>2</sub>  
 Starting Material Purity (%): 99.999948  
 Starting Material Lot No: 0801-1  
 Matrix: 3% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1,004 ± 6 µg/mL

**Certified Density:** 1.023 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}}}{(n)^{\frac{1}{2}}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

• "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

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**4.1 Assay Method #1      1,004 ± 6 µg/mL (avg. of 2 runs)**

ICP Assay NIST SRM 3105a Lot Number: 892707

**Assay Method #2      1,001 ± 5 µg/mL**

Calculated NIST SRM Lot Number: See Sec. 4.2



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<b>2.0 DESCRIPTION OF CRM</b>	10000 µg/mL Calcium in 2% (v/v) HNO <sub>3</sub>
Catalog Number:	CGCA10-1, CGCA10-2, and CGCA10-5
Lot Number:	D2-CA04008
Starting Material:	CaO
Starting Material Purity (%):	99.995507
Starting Material Lot No:	C808CAA1
Matrix:	2% (v/v) HNO <sub>3</sub>

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Concentration:** 9,994 ± 37 µg/mL (avg. of 2 methods)

**Certified Density:** 1.038 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}}}{(n)^{\frac{1}{2}}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

## 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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<b>4.1 Assay Method #1</b>	9,995 ± 47 µg/mL
	ICP Assay NIST SRM 3109a Lot Number: 050825
<b>Assay Method #2</b>	9,992 ± 26 µg/mL

EDTA NIST SRM 928 Lot Number: 928

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## 2.0 DESCRIPTION OF CRM 1000 µg/mL Cadmium in 3% (v/v) HNO<sub>3</sub>

Catalog Number: CGCD1-1, CGCD1-2, and CGCD1-5

Lot Number: D2-CD02027

Starting Material: Cd shot

Starting Material Purity (%): 99.999656

Starting Material Lot No: R1205CDA1

Matrix: 3% (v/v) HNO<sub>3</sub>

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1,002 ± 4 µg/mL (avg. of 2 methods)

Certified Density: 1.015 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 \sqrt{(\sum s_i)^2}}{(n)^{1/2}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

## 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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- |     |                 |   |
|-----|-----------------|---|
| 4.1 | Assay Method #1 | 1,002 ± 4 µg/mL<br>ICP Assay NIST SRM 3108 Lot Number: 060531 |
|     | Assay Method #2 | 1,002 ± 3 µg/mL<br>EDTA NIST SRM 928 Lot Number: 928          |

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**2.0 DESCRIPTION OF CRM**

Catalog No.: CHEM-CLP-4  
 Lot Number: E2-MEB374038  
 Matrix: 0.8% HF(v/v), 3% HNO3(v/v)

1,000 µg/mL ea:

B, Mo, Si, Sn, Ti

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Boron, B	1,000 ± 4 µg/mL	Molybdenum, Mo	1,000 ± 5 µg/mL	Silicon, Si	1,000 ± 3 µg/mL
Tin, Sn	1,000 ± 5 µg/mL	Titanium, Ti	1,000 ± 5 µg/mL		

Certified Density: 1.031 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

 $(\bar{x})$  = mean $x_i$  = individual results

n = number of measurements

 $\Sigma s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{1/2}}{(n)}$$

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed , 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

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 Testing Laboratory  
 Certificate 883.01

 Reference Material Producer  
 Certificate 883.02

**2.0 DESCRIPTION OF CRM      1000 µg/mL Cobalt in 3% (v/v) HNO<sub>3</sub>**

Catalog Number: CGCO1-1, CGCO1-2, and CGCO1-5  
 Lot Number: D2-CO02027  
 Starting Material: Co powder  
 Starting Material Purity (%): 99.997516  
 Starting Material Lot No: KW809COA1  
 Matrix: 3% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1,003 ± 3 µg/mL

**Certified Density:** 1.019 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

S<sub>Si</sub> = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

• "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

• This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

**4.1 Assay Method #1      1,003 ± 5 µg/mL**

ICP Assay NIST SRM 3181 Lot Number: 000630

**Assay Method #2      1,003 ± 3 µg/mL**

EDTA NIST SRM 928 Lot Number: 928



# CERTIFICATE OF ANALYSIS

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Reference Material Producer  
Certificate 883.02

- 2.0 DESCRIPTION OF CRM      1000 µg/mL Chromium (+3) in 2% (v/v) HNO<sub>3</sub>**

Catalog Number: CGCR(3)1-1, CGCR(3)1-2, and CGCR(3)1-5  
Lot Number: D2-CR03042  
Starting Material: Cr pieces  
Starting Material Purity (%): 99.993508  
Starting Material Lot No: R800A  
Matrix: 2% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1,000 ± 3 µg/mL

**Certified Density:** 1.014 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}} / (n)^{\frac{1}{2}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- 4.1 Assay Method #1      1,000 ± 3 µg/mL (avg. of 2 runs)**

ICP Assay NIST SRM 3112a Lot Number: 030730

- Assay Method #2      1,001 ± 5 µg/mL**

Calculated NIST SRM Lot Number: See Sec. 4.2



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Reference Material Producer  
Certificate 883.02

- 2.0 DESCRIPTION OF CRM**      **1000 µg/mL Copper in 3% (v/v) HNO<sub>3</sub>**

Catalog Number: CGCU1-1, CGCU1-2, and CGCU1-5  
Lot Number: D2-CU02121  
Starting Material: Cu shot  
Starting Material Purity (%): 99.999158  
Starting Material Lot No: 1544  
Matrix: 3% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:**  $1,001 \pm 3 \text{ } \mu\text{g/mL}$  (avg. of 2 methods)

**Certified Density:** 1.015 g/mL (measured at  $20 \pm 1^\circ\text{C}$ )

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n} \quad (\bar{x}) = \text{mean}$$

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}} \quad (\sum s_i) = \text{The summation of all significant estimated errors}$$

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1	Assay Method #1	<b>1,000 ± 4 µg/mL</b> ICP Assay NIST SRM 3114 Lot Number: 011017
	Assay Method #2	<b>1,001 ± 2 µg/mL</b> EDTA NIST SRM 928 Lot Number: 928

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 Reference Material Producer  
 Certificate 883.02

**2.0 DESCRIPTION OF CRM      10000 µg/mL Iron in 5% (v/v) HNO<sub>3</sub>**

Catalog Number: CGFE10-1, CGFE10-2, and CGFE10-5  
 Lot Number: D2-FE03115  
 Starting Material: Fe powder  
 Starting Material Purity (%): 99.995342  
 Starting Material Lot No: 1539  
 Matrix: 5% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 10,125 ± 26 µg/mL

**Certified Density:** 1.066 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n} \quad ( \bar{x} ) = \text{mean}$$

x<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}}}{(n)^{\frac{1}{2}}} \quad \sum s_i = \text{The summation of all significant estimated errors}$$

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

**4.1 Assay Method #1      10,130 ± 47 µg/mL (avg. of 3 runs)**

ICP Assay NIST SRM 3126a Lot Number: 051031

**Assay Method #2      10,125 ± 26 µg/mL**

EDTA NIST SRM 928 Lot Number: 928

**QATS INORGANIC REFERENCE MATERIAL  
INTERFERENCE CHECK SAMPLE FOR ICP-MS  
ICSA WITH ICSB**

statistically pooled results from the following sources: ILM05.2 Pre-award analysis, Quarterly Blind analysis, CLP laboratory referee analysis, and QATS Laboratory analysis.

Preparation and analysis must be performed according to the following instructions:

**ICSA-0803, Interferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO<sub>3</sub>. Analyze this solution by ICP-MS.

**ICSB-0803, Analytes, mixed with ICSA-0803, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO<sub>3</sub>. Analyze this ICSAB solution by ICP-MS. Class 'A' glassware should be used to prepare these solutions.

**Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS  
ICSA-0803 AND ICSA-0803 MIXED WITH ICSB-0803**

Element	CRQL	Part A ( $\mu\text{g/L}$ )	Lower Limit ( $\mu\text{g/L}$ )	Upper Limit ( $\mu\text{g/L}$ )	Part A + Part B ( $\mu\text{g/L}$ )	Lower Limit ( $\mu\text{g/L}$ )	Upper Limit ( $\mu\text{g/L}$ )
Al	20	[100000]			[100000]		
Sb	2	(1.5)	-2.5	5.5	22.0	17.6	26.4
As	1	(0.1)	-1.9	2.1	19.0	15.2	22.8
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1	(0)	-2.0	2.0	19.0	15.2	22.8
Cd	1	(0.7)	-1.3	2.7	20.0	16.0	24.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2	21.0	16.8	25.2	40.0	32.0	48.0
Co	1	(1.0)	-1.0	3.0	20.0	16.0	24.0
Cu	2	(8.0)	4.0	12.0	25.0	20.0	30.0
Fe	200	[100000]			[100000]		
Pb	1	(4.0)	2.0	6.0	25.0	20.0	30.0
Mg	500	[100000]			[100000]		
Mn	1	(7.0)	5.0	9.0	27.0	21.6	32.4
Mo		[2000]			[2000]		
Ni	1	(6.0)	4.0	8.0	24.0	19.2	28.8
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1	(0)	-2.0	2.0	18.0	14.4	21.6
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1	(0)	-2.0	2.0	21.0	16.8	25.2
Ti		[2000]			[2000]		
V	5	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	2	(11.0)	7.0	15.0	29.0	23.2	34.8

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.

( ) Indicates analyte certified values and the acceptance range is calculated based on +/- 2 times the CRQL.

**QATS INORGANIC REFERENCE MATERIAL  
INTERFERENCE CHECK SAMPLE FOR ICP-MS  
ICSA WITH ICSB**

statistically pooled results from the following sources: ILM05.2 Pre-award analysis, Quarterly Blind analysis, CLP laboratory referee analysis, and QATS Laboratory analysis.

Preparation and analysis must be performed according to the following instructions:  
**ICSA-0803, Interferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO<sub>3</sub>. Analyze this solution by ICP-MS.  
**ICSB-0803, Analytes, mixed with ICSA-0803, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO<sub>3</sub>. Analyze this ICSAB solution by ICP-MS. Class 'A' glassware should be used to prepare these solutions.

**Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS  
ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803**

Element	CRQL	Part A ( $\mu\text{g/L}$ )	Lower Limit ( $\mu\text{g/L}$ )	Upper Limit ( $\mu\text{g/L}$ )	Part A + Part B ( $\mu\text{g/L}$ )	Lower Limit ( $\mu\text{g/L}$ )	Upper Limit ( $\mu\text{g/L}$ )
Al	20	[100000]			[100000]		
Sb	2	(1.5)	-2.5	5.5	22.0	17.6	26.4
As	1	(0.1)	-1.9	2.1	19.0	15.2	22.8
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1	(0)	-2.0	2.0	19.0	15.2	22.8
Cd	1	(0.7)	-1.3	2.7	20.0	16.0	24.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2	21.0	16.8	25.2	40.0	32.0	48.0
Co	1	(1.0)	-1.0	3.0	20.0	16.0	24.0
Cu	2	(8.0)	4.0	12.0	25.0	20.0	30.0
Fe	200	[100000]			[100000]		
Pb	1	(4.0)	2.0	6.0	25.0	20.0	30.0
Mg	500	[100000]			[100000]		
Mn	1	(7.0)	5.0	9.0	27.0	21.6	32.4
Mo		[2000]			[2000]		
Ni	1	(6.0)	4.0	8.0	24.0	19.2	28.8
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1	(0)	-2.0	2.0	18.0	14.4	21.6
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1	(0)	-2.0	2.0	21.0	16.8	25.2
Ti		[2000]			[2000]		
V	5	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	2	(11.0)	7.0	15.0	29.0	23.2	34.8

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.

( ) Indicates analyte certified values and the acceptance range is calculated based on +/- 2 times the CRQL.

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**QATS INORGANIC REFERENCE MATERIAL  
INITIAL CALIBRATION VERIFICATION SOLUTIONS  
(ICVs)**

ICV1-0307		
Element	Concentration (µg/L) (after 10 fold dilution)	Concentration (µg/L) (after 50 fold dilution)
Al	2521	504
Sb	994	199
As	999	200
Ba	497	99
Be	495	99
Cd	496	99
Ca	10026	2005
Cr	490	98
Co	499	100
Cu	492	98
Fe	5082	1016
Pb	1002	200
Mg	6074	1215
Mn	499	100
Ni	503	101
K	10021	2004
Se	1029	206
Ag	501	100
Na	10097	2019
Tl	1028	206
V	501	100
Zn	1025	205

ICV2-0601		
Element	Concentration (µg/L) (after 20 fold dilution)	
As	52.6	
Se	50.8	

ICV3-0500		
Element	Concentration (µg/L) (after 10 fold dilution)	
Sb	999	

07/18/11

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M2072

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**2.0 DESCRIPTION OF CRM** Stock Solution

Catalog No.: 6020ISS

Lot Number: E2-MEB365110

Matrix: 7% HNO<sub>3</sub>(v/v)

10 µg/mL ea:

Bi, Ho, In, Li6, Rh, Sc, Tb, Y

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Li, Li6	10.00 ± 0.09 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL	Holmium, Ho	10.00 ± 0.04 µg/mL
Indium, In	10.00 ± 0.02 µg/mL	Rhodium, Rh	10.15 ± 0.04 µg/mL	Scandium, Sc	10.01 ± 0.03 µg/mL
Terbium, Tb	10.00 ± 0.03 µg/mL	Yttrium, Y	10.01 ± 0.02 µg/mL		

Certified Density: 1.032 g/mL (measured at 20 ± 1 ° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

(  $\bar{x}$  ) = meanx<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}}}{(n)^{\frac{1}{2}}}$$

 $\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**Certified Abundance:** The 6Li in this standard is enhanced. The Certified abundances in Atom % are as follows:  
 IV's Certified Abundance

Isotope	Atom%
Lithium Li6	95.4 ± 0.3
Li7	4.6 ± 0.1

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std' is specified.

# CERTIFICATE OF ANALYSIS

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Testing Laboratory  
Certificate 883.01Reference Material Producer  
Certificate 883.02

- 2.0 DESCRIPTION OF CRM**      **10000 µg/mL Potassium in 2% (v/v) HNO<sub>3</sub>**

Catalog Number: CGK10-1, CGK10-2, and CGK10-5  
 Lot Number: E2-K03022  
 Starting Material: KNO<sub>3</sub>  
 Starting Material Purity (%): 99.9981  
 Starting Material Lot No: B19P01  
 Matrix: 2% (v/v) HNO<sub>3</sub>

### 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Concentration:**  $9,985 \pm 55 \mu\text{g/mL}$  - weighted mean

**Certified Density:** 1.025 g/mL (measured at  $20 \pm 1^\circ\text{C}$ )

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n} \quad (\bar{x}) = \text{mean}$$

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}}}{(n)^{\frac{1}{2}}} \quad \sum s_i = \text{The summation of all significant estimated errors}$$

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

### 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- 4.1 Assay Method #1**  $9,981 \pm 40 \mu\text{g/mL}$

ICP Assay NIST SRM 3141a Lot Number: 051220

- Assay Method #2**  $9,996 \pm 24 \mu\text{g/mL}$

Gravimetric NIST SRM Lot Number: See Sec. 4.2

# CERTIFICATE OF ANALYSIS

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- 2.0 DESCRIPTION OF CRM**      **1000 µg/mL Antimony in HF in 2% (v/v) HNO<sub>3</sub> / tr. HF**  
 Catalog Number: CGSBF1-1, CGSBF1-2, and CGSBF1-5

Lot Number: D2-SB02125  
 Starting Material: Sb shot  
 Starting Material Purity (%): 99.999426  
 Starting Material Lot No: R1105SBA1  
 Matrix: 2% (v/v) HNO<sub>3</sub> / tr. HF

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:**  $1,008 \pm 5 \text{ µg/mL}$

**Certified Density:**  $1.011 \text{ g/mL}$  (measured at  $20 \pm 1^\circ\text{C}$ )

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}} / n$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- 4.1 Assay Method #1**       $1,008 \pm 5 \text{ µg/mL}$   
 ICP Assay NIST SRM 3102A Lot Number: 061229

# CERTIFICATE OF ANALYSIS

R1.1114111

M2102

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<b>2.0 DESCRIPTION OF CRM</b>	<b>10000 µg/mL Magnesium in 2% (v/v) HNO<sub>3</sub></b>
Catalog Number:	CGMG10-1, CGMG10-2, and CGMG10-5
Lot Number:	E2-MG03101
Starting Material:	Mg metal
Starting Material Purity (%):	99.9995
Starting Material Lot No:	1484
Matrix:	2% (v/v) HNO <sub>3</sub>

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Concentration:**  $10,007 \pm 50 \text{ } \mu\text{g/mL}$  - weighted mean

**Certified Density:** 1.051 g/mL (measured at  $20 \pm 1^\circ\text{C}$ )

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

## 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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<b>4.1 Assay Method #1</b>	<b><math>10,001 \pm 28 \text{ } \mu\text{g/mL}</math></b>
	ICP Assay NIST SRM 3131a Lot Number: 050302
<b>Assay Method #2</b>	<b><math>10,014 \pm 26 \text{ } \mu\text{g/mL}</math></b>

EDTA NIST SRM 928 Lot Number: 928

R: 8/15/2011 M2006

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Testing Laboratory Certificate 883.01

Reference Material Producer Certificate 883.02

**2.0 DESCRIPTION OF CRM      10000 µg/mL Sodium in 2% (v/v) HNO<sub>3</sub>**

Catalog Number: CGNA10-1, CGNA10-2, and CGNA10-5  
 Lot Number: E2-NA03092  
 Starting Material: Na<sub>2</sub>CO<sub>3</sub>  
 Starting Material Purity (%): 99.9999  
 Starting Material Lot No: C181157  
 Matrix: 2% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 10,032 ± 46 µg/mL - weighted mean

**Certified Density:** 1.035 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}} / n^{\frac{1}{2}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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**4.1 Assay Method #1      10,035 ± 20 µg/mL**

ICP Assay NIST SRM 3152a Lot Number: 010728

**Assay Method #2      10,029 ± 18 µg/mL**

Gravimetric NIST SRM Lot Number: See Sec. 4.2

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**2.0 DESCRIPTION OF CRM      1000 µg/mL Nickel in 2% (v/v) HNO<sub>3</sub>**

Catalog Number: CGNI1-1, CGNI1-2, and CGNI1-5

Lot Number: C2-NI02062

Starting Material: Ni pieces

Starting Material Purity (%): 99.999033

Starting Material Lot No: E25T014

Matrix: 2% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1003 ± 3 µg/mL

**Certified Density:** 1.012 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2[(\sum s_i)^2]^{1/2}}{(n)}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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**4.1 Assay Method #1      998 ± 3 µg/mL**

ICP Assay NIST SRM 3136 Lot Number: 000612

**Assay Method #2      1003 ± 3 µg/mL**

EDTA NIST SRM 928 Lot Number: 928



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Testing Laboratory  
Certificate 883.01



Reference Material Producer  
Certificate 883.02

**2.0 DESCRIPTION OF CRM      1000 µg/mL Phosphorus in H<sub>2</sub>O**

Catalog Number: CGP1-1, CGP1-2, and CGP1-5  
Lot Number: E2-P02032  
Starting Material: H<sub>3</sub>PO<sub>4</sub>  
Starting Material Purity (%): 99.9983  
Starting Material Lot No: C29804  
Matrix: H<sub>2</sub>O

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1,004 ± 5 µg/mL- weighted mean

**Certified Density:** 0.999 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i^2 \right)^{1/2} \right] / n^{1/2}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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**4.1 Assay Method #1      1,005 ± 2 µg/mL**

ICP Assay NIST SRM 3139a Lot Number: 060717

**Assay Method #2      1,003 ± 2 µg/mL**

Acidimetric NIST SRM 84L Lot Number: 84L

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 Testing Laboratory  
 Certificate 883.01

 Reference Material Producer  
 Certificate 883.02

**2.0 DESCRIPTION OF CRM      1000 µg/mL Lead in 0.5% (v/v) HNO<sub>3</sub>**

Catalog Number: CGPB1-1, CGPB1-2, and CGPB1-5  
 Lot Number: D2-PB03020  
 Starting Material: Pb(NO<sub>3</sub>)<sub>2</sub>  
 Starting Material Purity (%): 99.999554  
 Starting Material Lot No: E1007PBA1  
 Matrix: 0.5% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1,008 ± 2 µg/mL-weighted avg. of 2 methods

**Certified Density:** 1.001 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

(  $\bar{x}$  ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}} / (n)^{\frac{1}{2}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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**4.1 Assay Method #1      1,003 ± 3 µg/mL**

ICP Assay NIST SRM 3128 Lot Number: 030721

**Assay Method #2      1,009 ± 2 µg/mL**

EDTA NIST SRM 928 Lot Number: 928

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Testing Laboratory  
Certificate 883.01Reference Material Producer  
Certificate 883.02

**2.0 DESCRIPTION OF CRM** Custom Second Source Solution

Catalog No.: CHEM-QC-4  
 Lot Number: E2-MEB374039  
 Matrix: 0.7% HF(v/v), 3% HNO<sub>3</sub>(v/v)

**Second Source:** Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

1,000 µg/mL ea:

B, Mo, Si, Sn, Ti

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Boron, B	1,000 ± 4 µg/mL	Molybdenum, Mo	1,000 ± 3 µg/mL	Silicon, Si	1,000 ± 2 µg/mL
Tin, Sn	1,000 ± 3 µg/mL	Titanium, Ti	1,000 ± 2 µg/mL		

**Certified Density:** 1.030 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$\Sigma s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{1/2}}{(n)^{1/2}}$$

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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 Reference Material Producer  
 Certificate 853.02

**2.0 DESCRIPTION OF CRM      1000 µg/mL Antimony in HF in 2% (v/v) HNO<sub>3</sub> / tr. HF**

Catalog Number: CGSBF1-1, CGSBF1-2, and CGSBF1-5  
 Lot Number: D2-SB02125  
 Starting Material: Sb shot  
 Starting Material Purity (%): 99.999426  
 Starting Material Lot No: R1105SBA1  
 Matrix: 2% (v/v) HNO<sub>3</sub> / tr. HF

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1,008 ± 5 µg/mL

**Certified Density:** 1.011 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{1/2}}{(n)^{1/2}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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**4.1 Assay Method #1      1,008 ± 5 µg/mL**

ICP Assay NIST SRM 3102A Lot Number: 061229



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- 2.0 DESCRIPTION OF CRM**      **1000 µg/mL Selenium(+4) in 2% (v/v) HNO<sub>3</sub>**

Catalog Number: CGSE(4)1-1, CGSE(4)1-2, and CGSE(4)1-5

Lot Number: D2-SE02020

Starting Material: Se shot

Starting Material Purity (%): 99.999203

Starting Material Lot No: 1505

Matrix: 2% (v/v) HNO<sub>3</sub>

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Concentration:** 1,004 ± 3 µg/mL

**Certified Density:** 1.011 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}} / (n)^{\frac{1}{2}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

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- 4.1 Assay Method #1**      **1,004 ± 3 µg/mL**

ICP Assay NIST SRM 3149 Lot Number: 992106

- Assay Method #2**      **1,007 ± 5 µg/mL**

Calculated NIST SRM Lot Number: See Sec. 4.2

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- 2.0 DESCRIPTION OF CRM** Stock Solution
- Catalog No.: CLPP-SPK-1
- Lot Number: D2-MEB324145
- Matrix: 7% HNO<sub>3</sub>(v/v)

2,000 µg/mL ea:

Al, Ba,

1,000 µg/mL ea:

Fe,

500 µg/mL ea:

Co, Mn, Ni, V, Zn,

250 µg/mL ea:

Cu,

200 µg/mL ea:

Cr3,

50 µg/mL ea:

Ag, Be

### 3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	2,000 ± 7 µg/mL	Barium, Ba	2,000 ± 3 µg/mL	Beryllium, Be	50.09 ± 0.21 µg/mL
Chromium+3, Cr3	200.0 ± 0.7 µg/mL	Cobalt, Co	500.0 ± 1.1 µg/mL	Copper, Cu	250.3 ± 0.5 µg/mL
Iron, Fe	1,000 ± 3 µg/mL	Manganese, Mn	500.1 ± 2.7 µg/mL	Nickel, Ni	499.8 ± 1.4 µg/mL
Silver, Ag	50.00 ± 0.12 µg/mL	Vanadium, V	500.0 ± 1.9 µg/mL	Zinc, Zn	499.9 ± 2.1 µg/mL

Certified Density: 1.071 g/mL (measured at 20 ± 1 °C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

 $(\bar{x})$  = meanx<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i^2 \right)^{\frac{1}{2}} \right] / n^{\frac{1}{2}}$$

 $\sum s_i^2$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)



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**2.0 DESCRIPTION OF CRM Stock Solution**

Catalog No.: CLPP-SPK-4  
Lot Number: A2-MEB194140  
Matrix: 2% HNO<sub>3</sub>(abs)

100.00 µg/mL ea:

Sb,

50.00 µg/mL ea:

Cd, Ti,

40.00 µg/mL ea:

As,

20.00 µg/mL ea:

Pb,

10.00 µg/mL ea:

Se

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	100.3 ± 0.4 µg/mL	Arsenic, As	40.08 ± 0.13 µg/mL	Cadmium, Cd	50.10 ± 0.12 µg/mL
Lead, Pb	20.03 ± 0.06 µg/mL	Selenium, Se	10.04 ± 0.04 µg/mL	Thallium, Tl	50.08 ± 0.17 µg/mL

Certified Density: 1.014 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

$(\bar{x})$  = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \sqrt{2[(\sum s_i)^2]} / \sqrt{n}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

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**2.0 DESCRIPTION OF CRM** **10000 µg/mL Strontium in 2% (v/v) HNO<sub>3</sub>**

Catalog Number: CGSR10-1, CGSR10-2, and CGSR10-5  
Lot Number: D2-SR02025  
Starting Material: SrCO<sub>3</sub>  
Starting Material Purity (%): 99.998364  
Starting Material Lot No: W999A  
Matrix: 2% (v/v) HNO<sub>3</sub>

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Concentration:**  $9,966 \pm 31 \mu\text{g/mL}$  (avg. of 2 methods)

**Certified Density:** 1.034 g/mL (measured at  $20 \pm 1^\circ\text{C}$ )

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}} / (n)^{\frac{1}{2}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

## 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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**4.1 Assay Method #1**  $9,952 \pm 26 \mu\text{g/mL}$

EDTA NIST SRM 928 Lot Number: 928

**Assay Method #2**  $9,979 \pm 36 \mu\text{g/mL}$

ICP Assay NIST SRM 3153a Lot Number: 990906

**1.0 INORGANIC VENTURES** is an ISO Guide 34 "General Requirements for the Competence of Reference Material Producers" and ISO 9001 registered manufacturer. Our manufacturing laboratory is accredited to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories."



**2.0 DESCRIPTION OF CRM      1000 µg/mL Strontium in 0.1% (v/v) HNO<sub>3</sub>**

Catalog Number: CGSR1-1, CGSR1-2, and CGSR1-5  
 Lot Number: C2-SR02024  
 Starting Material: SrCO<sub>3</sub>  
 Starting Material Purity (%): 99.998364  
 Starting Material Lot No: W999A  
 Matrix: 0.1% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1002 ± 3 µg/mL

**Certified Density:** 1.000 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}}}{(n)^{\frac{1}{2}}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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**4.1 Assay Method #1      1002 ± 3 µg/mL**

EDTA NIST SRM 928 Lot Number: 928

**Assay Method #2      1000 ± 5 µg/mL**

ICP Assay NIST SRM 3153a Lot Number: 990906



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<b>2.0</b>	<b>DESCRIPTION OF CRM</b>	1000 µg/mL Thorium in 4% (v/v) HNO <sub>3</sub>
	Catalog Number:	CGTH1-1, CGTH1-2, and CGTH1-5
	Lot Number:	D2-TH01082
	Starting Material:	Th(NO <sub>3</sub> ) <sub>4</sub> •4H <sub>2</sub> O
	Starting Material Purity (%):	99.997387
	Starting Material Lot No:	X0033369-8 and X25828-7
	Matrix:	4% (v/v) HNO <sub>3</sub>

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

- Certified Concentration:** 1,001 ± 5 µg/mL-weighted mean  
1.022 g/mL (measured at 20 ± 1°C)

**Certified Density:**

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

x<sub>i</sub> = individual results

n = number of measurements

$\sum s_i$  = The summation of all significant estimated errors  
(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

## 4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

- 4.1 Assay Method #1** 1,002 ± 3 µg/mL  
EDTA NIST SRM 928 Lot Number: 928

- Assay Method #2** 1,001 ± 4 µg/mL  
ICP Assay NIST SRM 3159 Lot Number: 992912

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**2.0 DESCRIPTION OF CRM**      **1000 µg/mL Thallium in 0.7% (v/v) HNO<sub>3</sub>**

Catalog Number: CGTL1-1, CGTL1-2, and CGTL1-5  
 Lot Number: D2-TL01111  
 Starting Material: TINO<sub>3</sub>  
 Starting Material Purity (%): 99.999671  
 Starting Material Lot No: 1479  
 Matrix: 0.7% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:**  $1,000 \pm 4 \text{ } \mu\text{g/mL}$

**Certified Density:** 1.003 g/mL (measured at  $20 \pm 1^\circ\text{C}$ )

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$\Sigma s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

$$\text{Uncertainty } (\pm) = 2 \left[ \frac{(\sum s_i)^2}{n} \right]^{\frac{1}{2}}$$

**4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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<b>4.1</b>	<b>Assay Method #1</b>	<b><math>1,000 \pm 4 \text{ } \mu\text{g/mL}</math> (avg. of 2 runs)</b>
		ICP Assay NIST SRM 3158 Lot Number: 993012
	<b>Assay Method #2</b>	<b><math>1,001 \pm 5 \text{ } \mu\text{g/mL}</math></b>
		Calculated NIST SRM Lot Number: See Sec. 4.2



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R: 09/09/2011

M2024

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**2.0 DESCRIPTION OF CRM** Stock Solution

Catalog No.: IV-STOCK-12  
Lot Number: E2-MEB372150  
Matrix: 5% HNO<sub>3</sub>(v/v)

10 µg/mL ea:

Ba, Be, Bi, Ce, Co, In, Li, Ni, Pb, U

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Barium, Ba	9.99 ± 0.04 µg/mL	Beryllium, Be	10.00 ± 0.04 µg/mL	Bismuth, Bi	9.99 ± 0.04 µg/mL
Cerium, Ce	10.00 ± 0.03 µg/mL	Cobalt, Co	10.01 ± 0.07 µg/mL	Indium, In	10.00 ± 0.05 µg/mL
Lead, Pb	10.01 ± 0.05 µg/mL	Lithium, Li	10.00 ± 0.01 µg/mL	Nickel, Ni	9.99 ± 0.03 µg/mL
Uranium, U	10.00 ± 0.03 µg/mL				

**Certified Density:** 1.025 g/mL (measured at 20 ± 1° C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}}}{(n)^{\frac{1}{2}}}$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**Certified Abundance:** The 235U in this standard is depleted. The Certified abundances in Atom % are as follows:  
IV's Certified Abundance

Isotope	Atom%
Uranium 238U	99.7 ± 0.1
235U	0.29 ± 0.05

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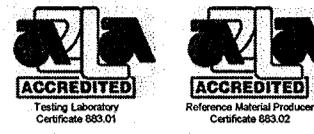


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- 2.0 DESCRIPTION OF CRM** 1000 µg/mL Uranium in 2% (v/v) HNO<sub>3</sub>

Catalog Number: CGU1-1, CGU1-2, and CGU1-5  
Lot Number: D2-U01084  
Starting Material: UO<sub>2</sub>(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Starting Material Purity (%): 99.999942  
Starting Material Lot No: N55947  
Matrix: 2% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1,015 ± 4 µg/mL

**Certified Density:** 1.009 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}; \quad (\bar{x}) = \text{mean}$$

x<sub>i</sub> = individual results

n = number of measurements

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

**Certified Abundance:** The 235U in this standard is depleted. The Certified abundances in Atom % are as follows:

IV's Certified Abundance

Isotope	Atom%
Uranium 238U	99.7 ± 0.1
235U	0.29 ± 0.05

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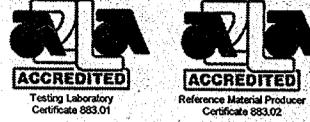
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**2.0 DESCRIPTION OF CRM      1000 µg/mL Vanadium in 2% (v/v) HNO<sub>3</sub>**

Catalog Number: CGV1-1, CGV1-2, and CGV1-5  
Lot Number: D2-V02065  
Starting Material: V2O5  
Starting Material Purity (%): 99.990563  
Starting Material Lot No: 46  
Matrix: 2% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:** 1,007 ± 3 µg/mL

**Certified Density:** 1.019 g/mL (measured at 20 ± 1°C)

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

( $\bar{x}$ ) = mean

$x_i$  = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = 2 \left[ \left( \sum s_i \right)^2 \right]^{\frac{1}{2}} / n$$

$\sum s_i$  = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume and the fixed error reported on the NIST SRM certificate of analysis)

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**4.1 Assay Method #1      1,007 ± 3 µg/mL**  
EDTA NIST SRM 928 Lot Number: 928

**Assay Method #2      1,003 ± 4 µg/mL**  
ICP Assay NIST SRM 3165 Lot Number: 992706

*R ! 01/28/11*

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 Testing Laboratory  
Certificate 883.01

 Reference Material Producer  
Certificate 883.02

- 2.0 DESCRIPTION OF CRM**      **1000 µg/mL Zinc in 2% (v/v) HNO<sub>3</sub>**

Catalog Number: CGZN1-1, CGZN1-2, and CGZN1-5  
 Lot Number: D2-ZN02065  
 Starting Material: Zn shot  
 Starting Material Purity (%): 99.999897  
 Starting Material Lot No: 1560  
 Matrix: 2% (v/v) HNO<sub>3</sub>

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Concentration:**  $998 \pm 4 \text{ } \mu\text{g/mL}$  (avg. of 2 methods)

**Certified Density:** 1.012 g/mL (measured at  $20 \pm 1^\circ\text{C}$ )

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

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- 4.1 Assay Method #1**       **$997 \pm 4 \text{ } \mu\text{g/mL}$  (avg. of 2 runs)**  
 ICP Assay NIST SRM 3168a Lot Number: 080123

- Assay Method #2**       **$999 \pm 3 \text{ } \mu\text{g/mL}$**   
 EDTA NIST SRM 928 Lot Number: 928

IS 401-3

**CHEMTECH**SDP - MISMO1.2 - 14etall - ICPMS-02  
JEP-M8.

## Water Sample Preparation Sheet



C4464

**PB59234**

PrepBatch ID :

SDG No :

Matrix :

Method : ISMO1.3 - MS

Initial Volume :

50

ML

Final Volume :

50

ML

Hot Plate Temp :

109°C

→

Batch#

PB59234

ICP Digest Date:

11/14/11

Time : 9:00 AM

Sample Received By :

Sandy

Dig Technician Signature: Newsham Wit, Ronald,

Supervisor Signature: Sandy Jellicoe

Prep Code:

EWI

11/14/11 mfp

Entered 12-30-11 am.

Standard Name	MLS USED	STD REF. # FROM LOG
LCSW	0.50 mL	MP9104
Spike Sol. B	0.50 mL	MP9118
Spike Sol. 1 Se1	0.50 mL	MP9210
{ 11/14/11 mfp		

Chemical Used	Lot Number
1:1 HNO3	MP8992
1:1 HCL	MP8463
	{ 11/14/11 mfp

Date / Time	Received By	Relinquished By	Location
11/14/11 12:30pm	Sandy Jellicoe	Newsham	Ied. Lab.
	Analysis Group	Digestion Group	
	DR, JS PM	(NP) PM, RD	

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	pH	Comments
C4464-01	MH3BA1	BR	Y	CL	CL	>2	Affordig. pH <2
C4464-02	MH3BA2	BR	Y	CL	CL	>2	
C4464-03	MH3BA3	BR	Y	CD	CL	>2	
C4464-04	MH3BA4	BR	Y	CD	CL	>2	
C4464-05	MH3BA5	BR	Y	CL	CL	>2	Affordig. pH <2
C4464-06	MH3BA6	BR	Y	CD	CL	<2	
C4464-07	MH3BA6D	BR	Y	CD	CL	<2	
C4464-08	MH3BA6S	BR	Y	CD	CL	<2	SHK-B + MP920
C4464-09	MH3BA7	BR	Y	CD	CL	<2	6/14/11mt
C4464-10	MH3BA8	BR	Y	CD	CL	>2	Affordig. pH <2
C4464-11	MH3BA9	BR	Y	CD	CL	<2	
C4464-12	MH3BB0	C	C	CL	CL	<2	
C4464-13	MH3BB1	C	C	CL	CL	<2	
C4464-14	MH3BB2	C	C	CL	CL	<2	
C4464-15	MH3BB3	C	C	CL	CL	<2	
C4464-16	MH3BB4	BR	Y	CL	CL	<2	
C4464-17	MH3BB5	C	C	CL	CL	<2	6/14/11mt
pb59234BL	PBW01	C	C	CL	CL	<2	
pb59234BS	LCS01	C	C	CL	CL	<2	MP9104

\* BL=Blank BS=Blank Spike TB=TCLP Blank

\* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black

\* CLARITY: CL=Clear CD=Cloudy O=Opaque

Lab Sample ID	Customer Sample Number	Color Before	Color After	Clarity Before	Clarity After	pH	Comments
C4464-01	MH3BA1	Brown	Yellow	Clear	Clear	>2	After dig. pH C 2
C4464-02	MH3BA2	Brown	Yellow	Clear	Clear	>2	
C4464-03	MH3BA3	Brown	Yellow	Cloudy	Clear	>2	
C4464-04	MH3BA4	Brown	Yellow	Cloudy	Clear	>2	
C4464-05	MH3BA5	Brown	Yellow	Clear	Clear	>2	
C4464-06	MH3BA6	Brown	Yellow	Cloudy	Clear	<2	
C4464-07	MH3BA6D	Brown	Yellow	Cloudy	Clear	<2	{ 11/14/11 cont.
C4464-08	MH3BA6S	Brown	Yellow	Cloudy	Clear	<2	Spike B + MPQ210
C4464-09	MH3BA7	Brown	Yellow	Cloudy	Clear	<2	11/14/11 cont
C4464-10	MH3BA8	Brown	Yellow	Cloudy	Clear	>2	After dig. pH C 2
C4464-11	MH3BA9	Brown	Yellow	Cloudy	Clear	<2	
C4464-12	MH3BB0	Colorless	Colorless	Clear	Clear	<2	
C4464-13	MH3BB1	Colorless	Colorless	Clear	Clear	<2	
C4464-14	MH3BB2	Colorless	Colorless	Clear	Clear	<2	
C4464-15	MH3BB3	Colorless	Colorless	Clear	Clear	<2	
C4464-16	MH3BB4	Brown	Yellow	Clear	Clear	<2	
C4464-17	MH3BB5	Colorless	Colorless	Clear	Clear	<2	
PB59234BL	PBW01	Brown	Yellow	Clear	Clear	<2	11/14/11 cont
PB59234BS	LCS01	Brown	Yellow	Clear	Clear	<2	MPQ104

\* BL=Blank BS=Blank Spike TB=TCLP Blank

\* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black

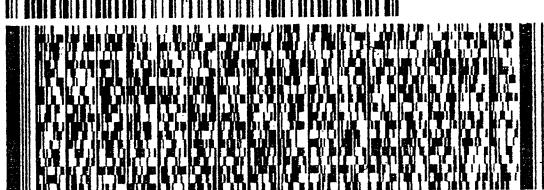
\* CLARITY: CL=Clear CD=Cloudy O=Opaque

ORIGIN ID: SYRA (732) 585-4429  
WESTON SOLUTIONS, INC./GOVT ACCT  
1090 KING GEORGES POST, STE 201  
EDISON, NJ 08837  
UNITED STATES US

SHIP DATE: 02NOV11  
ACTWTG: 28.2 LB  
CAD: /POS1242  
DIMS: 26x14x14 IN  
BILL SENDER

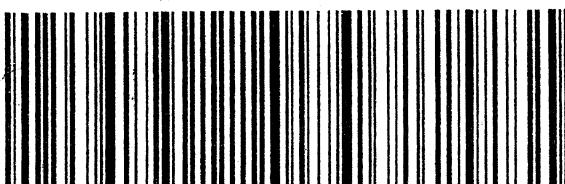
To DIVYA MEHTA  
CHEMTECH CONSULTING  
284 SHEFFIELD ST  
STE 1  
MOUNTAINSIDE NJ 07092  
(908) 789-8945  
IND:  
PO:  
REF:  
DEPT:

PS  
11/3/11  
a:15



THU - 03 NOV A1  
TRK# 8739 8176 0364 0200 STANDARD OVERNIGHT

**EB CDWA** 07092  
NJ-US EWR



CCP  
Original Documents are located in CCP

MH3054

*Snowy*

11/3/11

### Login Summary Report

Order ID :	C4464	Order Date :	11/3/2011 9:15:00 AM	Project Mgr :	Snehal
Client :	USEPA CLP SMO	Project :	41926	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	11/3/2011 9:15:00 AM	EDD Type :	EPA CLP
Date Sign Off :	11/7/2011 1:15:03 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
C4464-01	MH3BA1	Water	10/28/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-02	MH3BA2	Water	10/27/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-03	MH3BA3	Water	10/27/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-04	MH3BA4	Water	10/28/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-05	MH3BA5	Water	10/28/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-06	MH3BA6	Water	10/28/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-07	MH3BA6D	Water	10/28/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-08	MH3BA6S	Water	10/28/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-09	MH3BA7	Water	10/28/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-10	MH3BA8	Water	10/29/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-11	MH3BA9	Water	10/27/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-12	MH3BB0	Water	10/29/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-13	MH3BB1	Water	10/29/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-14	MH3BB2	Water	10/29/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-15	MH3BB3	Water	10/29/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011

				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-16	MH3BB4	Water	10/29/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011
C4464-17	MH3BB5	Water	10/29/2011						
				Metals CLP MS		ISM01.3_MS	15	11/24/2011	11/24/2011

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**From:** Mroz, Ryan [rmroz@fedcsc.com]  
**Sent:** Monday, November 07, 2011 10:24 PM  
**To:** epa@chemtech.net  
**Cc:** Goodrich.Donald@epamail.epa.gov  
**Subject:** Region 08 | Case 41926 | Lab CHEM | Issue Samples listed on TR/COC but not received at laboratory | FINAL

Snehal,

\*\*\*Summary Start\*\*\*

Issue: The TR/COC lists the dissolved metals sample (ID MH3BB6) station location SSSW89 collected 10/29/2011 at 9:00; however, the laboratory did not receive this sample.

Resolution: Per Region 8, no dissolved container was send for sample MH3BB6; analysis of this sample is canceled for the DM portion. The lab shall note the issue in the SDG Narrative and proceed with analysis.

\*\*\*Summary End\*\*\*

Let me know if you have any additional questions.

Thanks,

Please note: To waive any defect(s) associated with this issue, please contact your PO.

Ryan Mroz  
Environmental Coordinator - Regions 5 & 8  
CSC

**15000 Conference Center Drive Chantilly, VA 20151**

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-----Original Message-----

From: Goodrich.Donald@epamail.epa.gov [mailto:Goodrich.Donald@epamail.epa.gov]  
Sent: Monday, November 07, 2011 10:47 AM  
To: Mroz, Ryan  
Subject: Re: Region 08 | Case 41926 | Lab CHEM | Issue Samples listed on TR/COC but not received at laboratory

Ryan, the proposed resolution is acceptable.  
-dgg

Don Goodrich  
EPA Region 8 Environmental Scientist  
Ecosystem Protection and Remediation, Program Support  
office: 303-312-6687  
cell: 303-905-4024

---

**From:** Mroz, Ryan  
**Sent:** Monday, November 07, 2011 10:29 AM  
**To:** 'Goodrich.Donald@epamail.epa.gov'  
**Subject:** Region 08 | Case 41926 | Lab CHEM | Issue Samples listed on TR/COC but not received at laboratory

Hi Don,

I just wanted to follow up on the issue below.

Please advise if the PROPOSED Resolution is acceptable. I have put in the analysis of the DM sample SSSW89 is canceled if that is acceptable.

Issue: The TR/COC lists the dissolved metals sample (ID MH3BB6) station location SSSW89 collected 10/29/2011 at 9:00; however, the laboratory did not receive this sample.

PROPOSED Resolution: Per Region 8, no dissolved container was send for sample MH3BB6; analysis of this sample is canceled for the DM portion. The lab shall note the issue in the SDG Narrative and proceed with analysis.

Thanks,

Ryan Mroz  
Environmental Coordinator - Regions 5 & 8  
CSC

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**From:** Mroz, Ryan  
**Sent:** Friday, November 04, 2011 1:48 PM  
**To:** 'Goodrich.Donald@epamail.epa.gov'  
**Subject:** Region 08 | Case 41926 | Lab CHEM | Issue Samples listed on TR/COC but not received at laboratory

Don,

Please advise if the PROPOSED Resolution is acceptable. I have put in the analysis of the DM sample SSSW89 is canceled if that is acceptable.

Issue: The TR/COC lists the dissolved metals sample (ID MH3BB6) station location SSSW89 collected 10/29/2011 at 9:00; however, the laboratory did not receive this sample.

PROPOSED Resolution: Per Region 8, no dissolved container was send for sample MH3BB6; analysis of this sample is canceled for the DM portion. The lab shall note the issue in the SDG Narrative and proceed with analysis.

Let me know if you have any questions.

Thanks,

Ryan Mroz  
Environmental Coordinator - Regions 5 & 8  
CSC

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**From:** Alexander, Kent [mailto:kent.alexander@urs.com]  
**Sent:** Friday, November 04, 2011 1:08 PM  
**To:** Mroz, Ryan; Goodrich.Donald@epamail.epa.gov  
**Subject:** RE: Region 08 | Case 41926 | Lab CHEM | Issue Samples listed on TR/COC but not received at laboratory

Don/Ryan, Sample SSSW89 turns out to be a rinsate blank and was submitted for Total Metals only, there is no Dissolved Metals sample for SSSW89.

Kent  
Note new e-mail: kent.alexander@urs.com

---

**From:** Mroz, Ryan [mailto:rmroz@fedcsc.com]  
**Sent:** Friday, November 04, 2011 10:13 AM  
**To:** Alexander, Kent; Goodrich.Donald@epamail.epa.gov  
**Subject:** Region 08 | Case 41926 | Lab CHEM | Issue Samples listed on TR/COC but not received at laboratory

Don/Kent,

CHEM is reporting the following Issue with Case 41926. Please advise the laboratory how to proceed.

Issue: The TR/COC lists the dissolved metals sample (ID MH3BB6) station location SSSW89 collected 10/29/2011 at 9:00; however, the laboratory did not receive this sample.

Let me know if you have any questions.  
Thanks,

Ryan Mroz  
Environmental Coordinator - Regions 5 & 8  
CSC

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**From:** Snehal Mehta [mailto:Snehal@chemtech.net]  
**Sent:** Friday, November 04, 2011 11:47 AM  
**To:** Mroz, Ryan  
**Subject:** RE: Region 08 | Case 41926 | Lab CHEM | Issue Documentation | FINAL

Ryan,

Issue : Lab did not received Dissolved Metal Container for Sample: MH3BB6, See St. location below"

**SSSW89 MH3BB6**

Regards,

**Snehal Mehta**

Tel. 908 728 3158  
Fax: 908-789-8514

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**From:** Mroz, Ryan [mailto:[rmroz@fedcsc.com](mailto:rmroz@fedcsc.com)]  
**Sent:** Thursday, November 03, 2011 12:01 PM  
**To:** [epa@chemtech.net](mailto:epa@chemtech.net)  
**Cc:** Donald Goodrich  
**Subject:** RE: Region 08 | Case 41926 | Lab CHEM | Issue Documentation | FINAL

Snehal,

Please use the this attachment for the IDs.

Ryan Mroz  
Environmental Coordinator - Regions 5 & 8  
CSC

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**From:** Mroz, Ryan  
**Sent:** Thursday, November 03, 2011 11:53 AM  
**To:** ['epa@chemtech.net'](mailto:epa@chemtech.net)  
**Cc:** 'Donald Goodrich'  
**Subject:** Region 08 | Case 41926 | Lab CHEM | Issue Documentation | FINAL

Snehal,

\*\*\*Summary Start\*\*\*

**-Incorrect/duplicated sample numbers-**

Issue 1: The laboratory received samples without CLP formatted IDs.

Resolution 1: In accordance with previous direction from Region 8, the SMO coordinator will assign new sample IDs and provide the laboratory and the Region with a copy of the cross-referenced sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 2: The TM/DM samples have the same ID on the TR/COC.

Resolution 2: In accordance with previous direction from Region 8, the Total Metals sample will keep the CLP sample ID listed on the TR/COC. The SMO coordinator will assign a new CLP sample ID for the Dissolved Metals/Filtered Metals sample and notify the Region and the laboratory of the new sample ID. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please see the attached spreadsheet for CLP IDs in Issues 1 and 2.

**-Discrepancies with tags, jars, and/or TR/COC-**

Issue 3: The TR/COC does not list a TAT. Per Scheduling this Case requires a 21 day TAT.

Resolution 3: In accordance with previous direction from Region 8, the laboratory will proceed with the turnaround time indicated on the Scheduling Notification Form, note the issue in the SDG Narrative, and proceed with the analysis of the samples. The resolution will be applied to all TR/COCs received for this Case that list an incorrect turnaround time.

Issue 4: The TR/COC lists the analyses as metals for soil/TM samples and as dissolved metals for DM samples. Per Scheduling, soil samples require ICP-AES 11+ Metals (full list) analysis and TM/DM samples require ICP-MS 11+ Metals (full list) analysis.

Resolution 4: In accordance with previous direction from Region 8, the laboratory will note the issue in the SDG Narrative, perform the analyses as indicated on the Scheduling Notification Form, and proceed with the analysis of the samples. The resolution will be applied to all TR/COCs received for this Case that list an incorrect analysis.

\*\*\*Summary End\*\*\*

Let me know if you have any additional questions.

Thanks,

Please note: To waive any defect(s) associated with this issue, please contact your PO.

Ryan Mroz  
Environmental Coordinator - Regions 5 & 8  
CSC

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**From:** Snehal Mehta [mailto:[Snehal@chemtech.net](mailto:Snehal@chemtech.net)]  
**Sent:** Thursday, November 03, 2011 11:45 AM  
**To:** Mroz, Ryan  
**Subject:** Region 08 | Case 41926 | Lab CHEM | Lab CHEM | Issue w/ TR/COC, Documentation |

Ryan,

Issue: Lab received TR/COCs w/o CLP IDs, lab will need Inorganic CLP IDs to proceed further

Regards,

**Snehal Mehta**

Tel. 908 728 3158  
Fax: 908-789-8514

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<b>TM</b>	<b>Renamed TM</b>	<b>DM</b>	<b>Renamed DM</b>	<b>SOIL ID</b>	<b>Renamed Soil</b>
SSGW03	MH3B85	SSGW03	MH3BA1	SSSO0514	MH3BB7
SSGW04	MH3B86	SSGW04	MH3BA2	SSSO0612	MH3BB8
SSGW05	MH3B87	SSGW05	MH3BA3	SSSO0902	MH3BB9
SSGW07	MH3B88	SSGW07	MH3BA4	SSSO0916	MH3BC0
SSGW08	MH3B89	SSGW08	MH3BA5	SSSO1002	MH3BC1
SSGW10	MH3B90	SSGW10	MH3BA6	SSSO1102	MH3BC2
SSGW11	MH3B91	SSGW11	MH3BA7	SSSO1110	MH3BC3
SSGW12	MH3B92	SSGW12	MH3BA8	SSSO1202	MH3BC4
SSGW18	MH3B93	SSGW18	MH3BA9	SSSO1302	MH3BC5
SSGW23	MH3B94	SSGW23	MH3BB0	SSSO1306	MH3BC6
SSGW24	MH3B95	SSGW24	MH3BB1	SSSO1402	MH3BC7
SSGW25	MH3B96	SSGW25	MH3BB2	SSSO1702	MH3BC8
SSGW26	MH3B97	SSGW26	MH3BB3	SSSO8902	MH3BC9
SSGW89	MH3B98	SSGW89	MH3BB4	SSSO9903	MH3BD0
SSGW99	MH3B99	SSGW99	MH3BB5		
SSSW89	MH3BA0	SSSW89	MH3BB6		

# WORKLIST(Hardcopy Internal Chain)

Worklist Name c4464

Date: 14-Nov-11

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
11/17/2011 9:15:00 AM	Water	C4464-01	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA110/28/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-02	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA210/27/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-03	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA310/27/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-04	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA410/28/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-05	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA510/28/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-06	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA610/28/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-07	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA6D10/28/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-08	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA6S10/28/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-09	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA710/28/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-10	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA810/29/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-11	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BA910/27/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-12	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BB010/29/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-13	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BB110/29/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-14	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BB210/29/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-15	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BB310/29/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-16	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BB410/29/2011 ISM01.3_MS
11/17/2011 9:15:00 AM	Water	C4464-17	Metals CLP MS	1:1	USEPA CLP SMO	A22			MH3BB510/29/2011 ISM01.3_MS

Date/Time 11/14/11 8 A-m

Received by: NP

Relinquished by: PS

Date/Time 11/14/11 4 P-m

Received by: PS

Relinquished by: NP